A simple error estimator and adaptive procedure for practical engineerng analysis

#	Paper	IF	Citations
1902	A simple error estimator in the finite element method. **1987**, 3, 243-249		41
1901	Error estimation and adaptivity in flow formulation for forming problems. *International Journal for Numerical Methods in Engineering*, **1988**, 25, 23-42	2.4	109
1900	Adaptive techniques in the finite element method. **1988**, 4, 197-204		131
1899	An adaptive finite element technique for structural dynamic analysis. **1988**, 30, 1319-1339		21
1898	Error Control, Mesh Updating Schemes and Automatic Adaptive Remeshing for Finite Element Analysis of Unsteady Extrusion Processes. **1988**, 75-83		6
1897	Error indication and adaptive refinement in semiconductor device simulation. **1988**, 65, 175-192		1
1896	Error Estimation for Boundary Element Analysis. **1989**, 115, 1993-2010		19
1895	h andh-p version error estimation and adaptive procedures from theory to practice. **1989**, 5, 221-234		12
1894	Adaptive multiple-levelh-refinement in automated finite element analyses. **1989**, 5, 235-247		24
1893	A simple stress error estimator for Hybrid-Trefftz p-version elements. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 211-236	2.4	27
1892	Effective and practical hp-version adaptive analysis procedures for the finite element method. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 879-891	2.4	129
1891	Analysis of the Zienkiewicz hu a-posteriori error estimator in the finite element method. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 2161-2174	2.4	120
1890	Error estimates and convergence rates for various incompressible elements. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 2191-2202	2.4	49
1889	Error estimates and adaptive refinement for plate bending problems. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 2839-2853	2.4	95
1888	A self-adaptive h-refinement technique for the boundary element method. **1989**, 73, 295-316		38
1887	Post-processing techniques for assessing element distortion errors. **1989**, 6, 35-43		1
1886	An expert system for forming quadrilateral finite elements. **1990**, 7, 249-257		12

1885	Adaptive mesh redistribution for the boundary element in elastostatics. **1990**, 36, 1081-1088		32
1884	Error estimation and adaptivity in Navier-Stokes incompressible flows. **1990**, 6, 259-270		88
1883	A note on localization phenomena and adaptive finite-element analysis in forming processes. **1990**, 6, 71-76		41
1882	Self-adaptive hierarchic finite element solution of the one-dimensional unsaturated flow equation. **1990**, 10, 227-246		16
1881	On the quality of viscoelastic flow solutions: An adaptive refinement study of a Newtonian and a maxwell fluid. **1990**, 11, 571-585		10
1880	Element by element a posteriori error estimation and improvement of stress solutions for two-dimensional elastic problems. *International Journal for Numerical Methods in Engineering*, **1990**, 29, 223-244	2.4	37
1879	Adaptivity in hybrid-Trefftz finite element formulation. *International Journal for Numerical Methods in Engineering*, **1990**, 29, 391-405	2.4	22
1878	Error indicators for adaptive mesh refinement in the boundary element method new approach. *International Journal for Numerical Methods in Engineering*, **1990**, 29, 1247-1269	2.4	51
1877	Application of the zienkiewicz-zhu error estimator for plate and shell analysis. *International Journal for Numerical Methods in Engineering*, **1990**, 29, 1281-1298	2.4	38
1876	Superconvergence recovery technique and a posteriori error estimators. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1321-1339	2.4	92
1875	Progress in mixed Eulerian-Lagrangian finite element simulation of forming processes. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1441-1457	2.4	66
1874	An automatic remeshing technique for finite element simulation of forming processes. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1503-1525	2.4	64
1873	Adaptive FEM computation of forming processes Application to porous and non-porous materials. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1527-1553	2.4	46
1872	An adaptive remeshing technique for non-Newtonian fluid flow. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1555-1567	2.4	10
1871	Elastic-viscoplastic implicit formulation for finite element simulation of complex sheet forming processes. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1675-1697	2.4	9
1870	Numerical simulation of the superplastic forming of thin sheet components using the finite element method. *International Journal for Numerical Methods in Engineering*, **1990**, 30, 1719-1737	2.4	36
1869	An automatic remeshing processor. **1990**, 24, 147-155		4
1868	An algorithm for remeshing in metal forming. **1990**, 24, 157-167		7

1867 Some recent study on finite element analysis of forming processes. **1990**, 24, 411-419   1

1866 A posteriori error estimation. **1990**, 82, 59-72   21

1865 The three R's of engineering analysis and error estimation and adaptivity. **1990**, 82, 95-113   43

1864 A posteriori error estimation for the finite element and boundary element methods. **1990**, 37, 103-117   8

1863 An iterative algorithm for adaptive element splitting using transition elements. **1990**, 37, 283-294   6

1862 Adaptive remeshing for viscous incompressible flows. **1990**,   1

1861 Adaptive refinement of first order tetrahedral meshes for magnetostatic field problems. **1990**,

1860 Shape optimization with multiple loading conditions and mesh refinement. **1990**, 28, 922-927   7

1859 Error estimation procedure for plate bending elements. **1990**, 28, 685-693   13

1858 Edge effects in Mindlin Reissner plates using adaptive mesh refinement. **1990**, 7, 217-226   30

1857 Multigrid methods and adaptive refinement techniques in elliptic problems by finite element methods. **1991**, 93, 13-30   7

1856 A least square principle for the a posteriori computation of finite element approximation errors. **1991**, 85, 89-108   3

1855 Adaptive finite element analysis with quadrilaterals. **1991**, 40, 1097-1104   17

1854 An integrated approach to structural shape optimization of linearly elastic structures. Part II: Shape definition and adaptivity. **1991**, 2, 41-56   12

1853 Parallel adaptive mesh generation. **1991**, 2, 75-101   40

1852 Mesh generation with adaptive finite element analysis. **1991**, 13, 238-262   6

1851 A finite element analysis of fire-resisting cabinets using an adaptive remeshing technique. **1991**, 15, 274-279   2

1850 Software architecture for effective finite-element structural and thermal analysis on microcomputer. **1991**, 45, 43-60   1

1849	Mesh adaptations for linear 2d finite-element discretizations in structural mechanics, especially in thin shell analysis. **1991**, 36, 107-129		18
1848	Closed form stiffness matrices and error estimators for plane hierarchic triangular elements. *International Journal for Numerical Methods in Engineering*, **1991**, 31, 879-894	2.4	20
1847	Adaptive error analysis in seepage problems. *International Journal for Numerical Methods in Engineering*, **1991**, 31, 1333-1356	2.4	11
1846	Finite element analysis of heat transfer and flow problems using adaptive remeshing including application to solidification problems. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 767-781	2.4	43
1845	Adaptivity and mesh generation. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 783-810	2.4	164
1844	A new approach to the development of automatic quadrilateral mesh generation. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 849-866	2.4	180
1843	Automated adaptive two-dimensional system for the hp-version of the finite element method. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 867-893	2.4	23
1842	Adaptive analysis of thin shells using facet elements. *International Journal for Numerical Methods in Engineering*, **1991**, 32, 1283-1301	2.4	20
1841	A simple error estimator and adaptive time stepping procedure for dynamic analysis. **1991**, 20, 871-887		100
1840	Three-dimensional adaptive finite element computations and applications to non-Newtonian fluids. **1991**, 13, 145-165		11
1839	The computation of three-dimensional flows using unstructured grids. **1991**, 87, 335-352		62
1838	Adaptive space-time elements in the dynamic elastic-viscoplastic problem. **1991**, 39, 415-423		14
1837	Adaptive remeshing for shear band localization problems. **1991**, 61, 30-39		35
1836	Error estimators for eigenvalues computed from discretized models ofvibrating structures. **1991**, 29, 1527-1529		7
1835	Generalized Kelvin function solutions for a class of vibrating circular-plate problems. **1991**, 29, 1529-1531		1
1834	Validation of a finite element error estimator. **1991**, 29, 1736-1742		8
1833	Elimination of Gibbs' phenomena from error analysis of finite element results. **1991**, 29, 2233-2239		5
1832	ERROR ESTIMATION AND MESH OPTIMIZATION FOR CLASSICAL FINITE ELEMENTS. **1991**, 8, 69-80		131

1831	Finite element error estimates and adaptive grid refinement. **1992**,	
1830	Thermal Structures and Materials for High-Speed Flight. **1992**,	8
1829	Stresses near narrow rectangular notches, with rounded corners, in beams in bending. **1992**, 27, 227-234	2
1828	La maîtrise des modèles en mécanique des structures. **1992**, 1, 9-30	6
1827	Prediction of interlaminar stresses in laminated plates using globalorthogonal interpolation polynomials. **1992**, 30, 2740-2749	27
1826	Analysis of the Efficiency of an a Posteriori Error Estimator for Linear Triangular Finite Elements. **1992**, 29, 947-964	69
1825	Adaptative remeshing for viscous incompressible flows. **1992**, 30, 1986-1992	55
1824	Asymptotically Exact Error Estimators for Rectangular Finite Elements. **1992**, 29, 78-88	14
1823	Transient Thermal-Structural Analysis Using Adaptive Unstructured Remeshing and Mesh Movement. **1992**, 205-227	2
1822	Spatial mesh adaptation in semidiscrete finite element analysis of linear elastodynamic problems. **1992**, 9, 315-332	31
1821	Automatic two- and three-dimensional mesh generation based on fuzzy knowledge processing. **1992**, 9, 333-346	20
1820	Basic problems of a posteriori error estimation. **1992**, 101, 97-112	17
1819	Adaptive finite element methods in computational mechanics. **1992**, 101, 143-181	262
1818	Geometrical interpretation for error estimation in finite element analysis. **1992**, 101, 197-206	2
1817	Automatic adaptive remeshing for numerical simulations of metalforming. **1992**, 101, 283-298	27
1816	Recent experiences with error estimation and adaptivity, part I: Review of error estimators for scalar elliptic problems. **1992**, 97, 399-436	59
1815	Accuracy and optimal meshes in finite element computation for nearly incompressible materials. **1992**, 94, 303-315	49
1814	Recent experiences with error estimation and adaptivity, Part II: Error estimation for h-adaptive approximations on grids of triangles and quadrilaterals. **1992**, 100, 359-430	47

1795	Solving crack problems by an adaptive refinement procedure. **1992**, 43, 147-163		22
1794	Generation of high-quality gradation finite element mesh. **1992**, 41, 191-202		22
1793	Assessment of discretized errors and adaptive refinement with quadrilateral finite elements. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 781-798	2.4	18
1792	A study of boundary layers in plates using Mindlin-Reissner and 3-D elements. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 1305-1320	2.4	17
1791	The superconvergent patch recovery and a posteriori error estimates. Part 1: The recovery technique. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 1331-1364	2.4	1429
1790	The superconvergent patch recovery and a posteriori error estimates. Part 2: Error estimates and adaptivity. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 1365-1382	2.4	738
1789	Local error indicator in finite element analysis of Laplacian fields based on the green integration formula. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 1625-1642	2.4	7
1788	Element by element a posteriori error estimation of the finite element analysis for three-dimensional elastic problems. *International Journal for Numerical Methods in Engineering*, **1992**, 33, 1755-1769	2.4	9
1787	Computational mechanics today. *International Journal for Numerical Methods in Engineering*, **1992**, 34, 9-33	2.4	18
1786	Numerical investigation of element-wise a posteriori error estimation in two and three dimensional elastic problems. *International Journal for Numerical Methods in Engineering*, **1992**, 34, 969-977	2.4	15
1785	An adaptive finite element procedure for 2D dynamic transient analysis using direct integration. *International Journal for Numerical Methods in Engineering*, **1992**, 34, 997-1014	2.4	9
1784	Automated adaptive analysis of the biphasic equations for soft tissue mechanics using a posteriori error indicators. *International Journal for Numerical Methods in Engineering*, **1992**, 34, 1015-1033	2.4	10
1783	An adaptive h-refinement using transition element for plate bending problems. *International Journal for Numerical Methods in Engineering*, **1992**, 35, 145-163	2.4	21
1782	An automatic adaptive refinement finite element procedure for 2D elastostatic analysis. *International Journal for Numerical Methods in Engineering*, **1992**, 35, 1967-1989	2.4	35
1781	Adaptive refinement procedure for the finite difference method. **1992**, 8, 537-550		8
1780	The Zienkiewicz☒hu error estimator for multiple material problems. **1992**, 8, 273-277		10
1779	Adaptive mesh refinement for faceted shells. **1992**, 8, 319-329		7
1778	A posteriori local error estimation and adaptive time-stepping for newmark integration in dynamic analysis. **1992**, 21, 555-571		61

1777	An algorithm for adaptive refinement of triangular element meshes. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 499-509	2.4	34
1776	The problem of the selection of an a posteriori error indicator based on smoothening techniques. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 539-567	2.4	52
1775	A posteriori pointwise upper bound error estimates in the finite element method. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 1279-1298	2.4	17
1774	An adaptive multigrid technique for three-dimensional elasticity. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 1703-1716	2.4	9
1773	Finite element mesh control by integer programming. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 2581-2605	2.4	40
1772	Patch recovery based on superconvergent derivatives and equilibrium. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 2703-2724	2.4	126
1771	Linked interpolation for Reissner-Mindlin plate elements: Part II—A simple triangle. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 3057-3066	2.4	102
1770	A general methodology for structural shape optimization problems using automatic adaptive remeshing. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 3161-3185	2.4	35
1769	A fast error check for structural analysis using the virtual force principle. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 3223-3237	2.4	4
1768	The importance of diagonal dominance in the iterative solution of equations generated from the boundary element method. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 3509-3521	2.4	20
1767	H-Adaptive finite element methods for dynamic problems, with emphasis on localization. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 4245-4265	2.4	94
1766	Adaptive mesh generation and transformation of triangular to quadrilateral meshes. **1993**, 9, 121-129		42
1765	An element error indicator and a related stress-improvement procedure. **1993**, 9, 207-217		5
1764	A simple local error estimator and an adaptive time-stepping procedure for direct integration method in dynamic analysis. **1993**, 9, 273-292		26
1763	Mesh enrichment against mesh regeneration using quadrilateral elements. **1993**, 9, 547-554		14
1762	The effectivity of the Zienkiewicz–Zhu error estimate and two 2D adaptive mesh generators. **1993**, 9, 687-699		12
1761	Two-dimensional transient dynamic analysis with adaptive mesh refinement. **1993**, 9, 825-836		8
1760	Mapping of finite elements around corner singularities of the quasi-harmonic equation. **1993**, 9, 957-974		

1759	A post-processing technique and an a posteriori error estimate for the newmark method in dynamic analysis. **1993**, 22, 465-489	37
1758	Finite element error estimation for crack tip singular elements. **1993**, 14, 17-35	14
1757	Modeling and computation of shakedown problems for nonlinear hardening materials. **1993**, 103, 247-272	57
1756	Petrov-Galerkin solutions of the incompressible Navier-Stokes equations in primitive variables with adaptive remeshing. **1993**, 106, 143-178	52
1755	Recovery and few parameter representation of the optimal mesh density function for near optimal finite element meshes. **1993**, 109, 41-71	10
1754	Error estimates for finite element solutions of elliptic boundary value problems. **1993**, 49, 187-198	7
1753	Effective stress-based finite element error estimation for composite bodies. **1993**, 48, 493-503	3
1752	Adaptive finite element analysis of large strain elastic response. **1993**, 47, 829-855	24
1751	Adaptive mesh refinement for two-dimensional finite element stress analysis. **1993**, 48, 121-133	13
1750	. **1993**, 29, 1898-1901	7
1749	. **1993**, 29, 1910-1913	3
1748	Adaptive meshing Baving computational costs during the optimization of composite structures. **1993**, 6, 108-115	3
1747	Shape optimization of axisymmetric structures with adaptive finite element procedures. **1993**, 5, 256-264	12
1746	Analysis of hot forward-backward extrusion by the visco-plastic finite-element method. **1993**, 38, 103-113	8
1745	Subdomain generation for parallel finite element analysis. **1993**, 4, 473-488	20
1744	A description of an expert system for finite element modeling and analysis. **1993**, 4, 169-177	1
1743	Some practical aspects of shape optimization and its influence on intermediate mesh refinement. **1993**, 15, 125-133	7
1742	Closed-form error estimators for the linear strain and quadratic strain tetrahedron finite elements. **1993**, 47, 907-915	7

1741	An adaptive finite-element approach for the analysis of dental restorations. **1993**, 15, 401-8	9
1740	IMPLEMENTATION OF A MESH ADAPTIVE SCHEME BASED ON AN ELEMENT-LEVEL ERROR INDICATOR. **1993**,	0
1739	An adaptive finite element method for convective heat transfer with variable fluid properties. **1993**,	2
1738	An adaptive finite element method for turbulent free shear flow pasta propeller. **1993**,	3
1737	Peak stresses near narrow rectangular notches, with rounded corners, subjected to tensile and shear loading. **1993**, 28, 5-11	3
1736	NEW ERROR ESTIMATION FOR C° EIGENPROBLEMS IN FINITE ELEMENT ANALYSIS. **1993**, 10, 243-256	14
1735	A STUDY OF MESH OPTIMALITY CRITERIA IN ADAPTIVE FINITE ELEMENT ANALYSIS. **1993**, 10, 307-321	52
1734	ADAPTIVE FINITE ELEMENT ANALYSIS OF TRANSIENT THERMAL PROBLEMS. **1994**, 26, 273-292	18
1733	Mesh optimization for problems with steep gradients. **1994**, 11, 129-144	28
1732	Finite Element Mesh Refinement for Discontinuous Fiber Reinforced Composites. **1994**, 116, 524-532	1
1731	Adaptive finite element method for turbulent flow near a propeller. **1994**, 32, 2186-2193	16
1730	Adaptive remeshing for convective heat transfer with variable fluid properties. **1994**, 8, 687-694	23
1729	Adaptive finite element method for thermal flow problems. **1994**, 32, 741-747	35
1728	Sur l'adaptativit'des maillages ˆbase de quadrilat˜es. **1994**, 3, 379-409	6
1727	Adaptive remeshing and error control for forming processes. **1994**, 3, 247-279	11
1726	A posteriori finite element error estimators for indefinite elliptic boundary value problems *. **1994**, 15, 335-356	10
1725	Parallel adaptive finite element analysis of large scale structures. **1994**, 5, 325-335	3
1724	Anisotropic mesh transformations and optimal error control. **1994**, 14, 183-198	66

1723	An a posteriori error estimate and adaptive refinement procedure for viscoelastic fluid flows: The modified upper-convected Maxwell model. **1994**, 13, 400-413		7
1722	Superconvergent patch recovery with equilibrium and conjoint interpolant enhancements. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 517-536	2.4	132
1721	Validation of a posteriori error estimators by numerical approach. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 1073-1123	2.4	199
1720	On error estimates and adaptivity in elastoplastic solids: Applications to the numerical simulation of strain localization in classical and Cosserat continua. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 1351-1379	2.4	110
1719	Error estimators and enrichment procedures for the finite element analysis of thin sheet large deformation processes. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 1573-1591	2.4	14
1718	Automatic directional refinement in adaptive analysis of compressible flows. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 2189-2210	2.4	50
1717	Adaptive finite element analysis of geometrically non-linear plates and shells, especially buckling. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 2631-2655	2.4	30
1716	Towards automatic adaptive geometrically non-linear shell analysis. Part I: Implementation of an h-adaptive mesh refinement procedure. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 2657-2678	2.4	24
1715	A postprocessed error estimate and an adaptive procedure for the semidiscrete finite element method in dynamic analysis. *International Journal for Numerical Methods in Engineering*, **1994**, 37, 3585-3603	2.4	38
1714	Some remarks on Zienkiewicz-Zhu estimator. **1994**, 10, 625-635		91
1713	Superconvergent patch recovery of finite-element solution and a posteriori L2 norm error estimate. **1994**, 10, 313-320		48
1712	Validation of recipes for the recovery of stresses and derivatives by a computer-based approach. **1994**, 20, 45-89		11
1711	A case based reasoning approach to mesh specification for adaptive finite element analysis. **1994**, 36, 381-388		5
1710	Determination of effective thermal conductivity for a laminated composite slab in non-linear case. **1994**, 21, 403-410		4
1709	A review of error estimation and adaptivity in the boundary element method. **1994**, 14, 315-323		21
1708	A methodology for adaptive mesh refinement in optimum shape design problems. **1994**, 5, 91-102		9
1707	Error indicators and adaptive remeshing in large deformation finite element analysis. **1994**, 16, 99-139		108
1706	Algorithms and data structures for 2D and 3D adaptive finite element mesh refinement. **1994**, 17, 205-229		10

1705	On the a posteriori estimation of the modeling error for the heat conduction in a plate and its use for adaptive hierarchical modeling. **1994**, 14, 5-21	20
1704	Enhanced derivative recovery through least square residual penalty. **1994**, 14, 55-68	10
1703	An asymptotically exact, pointwise, a posteriori error estimator for linear, elliptic, one-dimensional problems with possible singularities in the solution. **1994**, 54, 185-220	5
1702	Finite element derivative recovery by moving least square interpolants. **1994**, 117, 211-223	77
1701	A variational method for finite element stress recovery and error estimation. **1994**, 111, 369-382	30
1700	A model study of the quality of a posteriori error estimators for linear elliptic problems. Error estimation in the interior of patchwise uniform grids of triangles. **1994**, 114, 307-378	120
1699	A survey of parametrized variational principles and applications to computational mechanics. **1994**, 113, 109-139	63
1698	Plarmsh3 three-dimensional program for remeshing in metal forming. **1994**, 53, 1153-1166	13
1697	Evaluation of modeling accuracy of 20-node solid elements by statistical factorial design. **1994**, 52, 1309-1314	2
1696	An error analysis approach for laminated composite plate finite element models. **1994**, 52, 611-616	8
1695	A posteriori error estimate by element patch post-processing, adaptive analysis in energy and L2 norms. **1994**, 53, 907-919	30
1694	An error analysis approach for laminated composite plate finite element models. **1994**, 53, 1381-1388	1
1693	Finite Element Analysis for Heat Transfer. **1994**,	44
1692	An adaptive finite element method for forced convective heat transfer. **1994**,	1
1691	An adaptive finite element method for a two-equation turbulence model in wall bounded flows. **1994**,	5
1690	An adaptive finite element method for mixed convection heat transfer. **1994**,	
1689	A posteriori error estimates for nonlinear problems. Finite element discretizations of elliptic equations. **1994**, 62, 445-445	16
1688	Transient and steady heat conduction using an adaptive finite element cad-based approach. **1994**, 4, 311-327	4

1687	Derivative recovery techniques for C° plate problems. **1994**, 11, 495-512		7
1686	Error estimators for viscoplastic materials: application to forming processes. **1995**, 12, 469-490		19
1685	On adaptivity for diffusion problems using triangular elements. **1995**, 12, 75-84		3
1684	Pointwise a posteriori error estimates for elliptic problems on highly graded meshes. **1995**, 64, 1-1		38
1683	. **1995**, 31, 1745-1748		3
1682	. **1995**, 43, 421-427		6
1681	Localization problems in plasticity using finite elements with adaptive remeshing. **1995**, 19, 127-148		82
1680	A posteriori error estimates and adaptivity for finite element solutions in finite elasticity. *International Journal for Numerical Methods in Engineering*, **1995**, 38, 775-795	2.4	13
1679	Plate spectral elements based upon Reissner Mindlin theory. *International Journal for Numerical Methods in Engineering*, **1995**, 38, 1341-1360	2.4	23
1678	h-Hierarchical adaptive boundary element method using local reanalysis. *International Journal for Numerical Methods in Engineering*, **1995**, 38, 2185-2207	2.4	20
1677	Arbitrary Lagrangian Eulerian finite element analysis of strain localization in transient problems. *International Journal for Numerical Methods in Engineering*, **1995**, 38, 4171-4191	2.4	42
1676	Examples of adaptive FEA in plasticity. **1995**, 50, 947-956		9
1675	An automatic adaptive refinement procedure using triangular and quadrilateral meshes. **1995**, 50, 671-686		6
1674	Hierarchical mesh adaptation of 2D quadrilateral elements. **1995**, 50, 727-735		11
1673	Mesh adaptation using a four-noded quadrilateral plate bending element. **1995**, 50, 737-758		5
1672	Mesh adaptation in fluid mechanics. **1995**, 50, 819-847		37
1671	A new unified a posteriori error estimator for adaptive finite element analysis of coupled transport problems. **1995**, 38, 2809-2819		4
1670	Analytical solutions of mass transport problems for error estimation of finite/infinite element methods. **1995**, 11, 13-23		7

1651	A parallel adaptive strategy for hp finite element computations. **1995**, 121, 449-470	31
1650	Analysis of the superconvergent patch recovery technique and a posteriori error estimator in the finite element method (I). **1995**, 123, 173-187	39
1649	An adaptive finite element algorithm for a two-dimensional stationary Stefan-like problem. **1995**, 124, 213-230	6
1648	Error indicators for mixed finite elements in 2-dimensional linear elasticity. **1995**, 127, 345-356	27
1647	The consistent strain method in finite element plasticity. **1995**, 54, 27-33	2
1646	A hierarchical time adaptive refinement scheme for the finite element elastodynamics. **1995**, 56, 645-650	5
1645	A model study of element residual estimators for linear elliptic problems: The quality of the estimators in the interior of meshes of triangles and quadrilaterals. **1995**, 57, 1009-1028	21
1644	Adaptive finite-element approach for analysis of bone/prosthesis interaction. **1995**, 33, 33-7	8
1643	Origins, milestones and directions of the finite element method A personal view. **1995**, 2, 1-48	12
1642	Finite element algorithms for contact problems. **1995**, 2, 1-49	202
1641	Computational assessment of a stress recovery technique with equilibrium constraint. **1995**,	
1640	Automatic Mesh Generation of Complex Geometries Based on Fuzzy Knowledge Processing and Computational Geometry. **1995**, 2, 265-280	16
1639	Error estimation and mesh optimisation using error in constitutive relation for electromagnetic field computation. **1995**, 31, 3587-3589	12
1638	Submodeling approach to adaptive mesh refinement. **1995**, 33, 1550-1554	5
1637	Error estimator and adaptive moving grids for finite volumes schemes. **1995**, 33, 2058-2065	10
1636	An Adaptive Approach to Finite Element Modeling of Drying Problems. **1995**, 13, 1167-1185	6
1635	Adaptive Finite Element Analysis of Air Flow Inside Grain Dryers. **1995**, 13, 125-146	4
1634	High order gradient smoothing towards improved C1 eigenvalues. **1995**, 12, 513-528	1

1633 Finite element simulation of the inertia welding of two similar parts. **1995**, 12, 497-512 — 57

1632 Distributed Finite-Element Analysis on Network of Workstations Algorithms. **1995**, 121, 1448-1455 — 24

1631 . — 1

1630 Une mťhode simple d'adaptation des maillages pour le calcul des ťoulements compressibles. **1995**, 4, 383-413

1629 Finite Element Modelling. **1995**, 7-35 — 10

1628 An adaptive finite element method for turbulent free shear flows. **1995**, — 2

1627 An adaptive finite element method for conjugate heat transfer. **1995**,

1626 Simple algorithm for adaptive refinement of three-dimensional finite element tetrahedral meshes. **1995**, 33, 928-932 — 24

1625 An adaptive finite element algorithm for contact problems in plasticity. **1995**, 17, 88-97 — 16

1624 Parallel adaptive finite element computations with hierarchical preconditioning. **1995**, 16, 45-52 — 9

1623 Adaptive finite element method for mixed convection. **1995**, 9, 708-714 — 11

1622 Smoothing stress resultants in adaptive finite element shell analysis. **1995**, 54, 835-849 — 4

1621 On Weak Residual Error Estimation. **1996**, 17, 1249-1268 — 15

1620 A pressure based adaptive finite element algorithm for compressible viscous flows. **1996**, — 9

1619 Numerical Methods in Structural Mechanics. **1996**, — 34

1618 A posteriori error estimation and adaptive meshing using error in constitutive relation. **1996**, 32, 1369-1372 — 23

1617 Tracer Injection Simulations by Finite Element Methods. **1996**, 4, 150-156 — 2

1616 Optimization of geometrically non-linear structures based on a multi-point approximation method and adaptivity. **1996**, 13, 76-97 — 6

1615 Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement. **1996**, 13, 339-360 | 9

1614 Predicted natural frequencies of two-dimensional elastodynamic problems: a practical error estimator. **1996**, 13, 19-37 | 6

1613 An adaptive mesh refinement scheme for solidification problems. **1996**, 27, 707-717 | 38

1612 Adaptive finite element analysis with quadrilateral elements using a newh-refinement strategy. **1996**, 21, 623-652 | 5

1611 Adaptive FE analysis of plates by shear-flexible quadrilateral Reissner-Mindlin elements. **1996**, 22, 329-366 | 6

1610 An engineering application of the h-p Version of the finite element method to the static analysis of a Euler-Bernoulli beam. **1996**, 59, 195-211 | 16

1609 A posteriori error estimation and adaptive mesh refinement for combined thermal-stress finite element analysis. **1996**, 59, 1149-1163 | 8

1608 A simple error estimator for size and distortion of 2D isoparametric finite elements. **1996**, 59, 989-999 | 6

1607 Estimation of error in finite element acoustic analysis. **1996**, 61, 13-19 | 5

1606 Multi-mesh and adaptivity in 3D shape optimization. **1996**, 61, 1125-1133 | 10

1605 Object-free adaptive meshing in highly heterogeneous 3-D domains. **1996**, 40, 209-25 | 22

1604 Interactive-adaptive geometrically nonlinear analysis of shell structures. **1996**, 12, 63-83 | 5

1603 Adaptive mesh refinement using piecewise-linear shape functions based on the blending function method. **1996**, 12, 84-93 | 3

1602 Adaptive finite element procedures in elasticity and plasticity. **1996**, 12, 120-141 | 13

1601 Modified r-method for the finite element adaptive analysis of plane elastic problems. **1996**, 10, 190-202 | 1

1600 An asymptotic formula for correcting finite element predicted natural frequencies of membrane vibration problems. **1996**, 12, 63-73 | 6

1599 OPTIMAL DESIGN FOR NON-STEADY-STATE METAL FORMING PROCESSES SHAPE OPTIMIZATION METHOD. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 33-50 | 2.4 | 99

1598 ERROR ESTIMATION AND ADAPTIVITY IN ELASTOPLASTICITY. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 189-217 | 2.4 | 83

1597	IDENTIFYING GLOBAL/LOCAL INTERFACE BOUNDARIES USING AN OBJECTIVE SEARCH METHOD. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 805-828	2.4	14
1596	A 3-D ADAPTIVE MESH REFINEMENT USING VARIABLE-NODE SOLID TRANSITION ELEMENTS. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 1585-1606	2.4	11
1595	ASYMPTOTIC SOLUTIONS FOR PREDICTED NATURAL FREQUENCIES OF TWO-DIMENSIONAL ELASTIC SOLID VIBRATION PROBLEMS IN FINITE ELEMENT ANALYSIS. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 2821-2835	2.4	8
1594	CONSISTENT LOCAL ERROR COMPUTATIONS. PART II: FE APPLICATIONS. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 3235-3246	2.4	3
1593	A BENCHMARK COMPUTATIONAL STUDY OF FINITE ELEMENT ERROR ESTIMATION. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 3969-3983	2.4	9
1592	CRITERIA TO ACHIEVE NEARLY OPTIMAL MESHES IN THE h-ADAPTIVE FINITE ELEMENT METHOD. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 4039-4061	2.4	31
1591	Mathematical analysis of Zienkiewicz☐hu's derivative patch recovery technique. **1996**, 12, 507-524		23
1590	An adaptive Petrov-Galerkin formulation for the compressible Euler and Navier-Stokes equations. **1996**, 129, 157-176		29
1589	Estimated error bounds for finite element solutions of elliptic boundary value problems. **1996**, 130, 17-31		1
1588	A subdomain residual method for a posteriori error estimates of finite element solutions of viscoelastic fluid flows. **1996**, 130, 93-113		7
1587	Adaptive hpq-finite element methods of hierarchical models for plate- and shell-like structures. **1996**, 136, 317-345		41
1586	A-posteriori error estimator/corrector for natural frequencies of thin plate vibration problems. **1996**, 59, 949-963		7
1585	Effective error sttimation from continous, boundary admissible estimated stress fields. **1996**, 61, 331-343		10
1584	Adaptive mesh refinement for shells with modified Ahmad elements. **1996**, 61, 1135-1141		4
1583	Application of patched elements based on a previous finite element solution in plane elasticity problems. **1996**, 59, 1107-1113		1
1582	Adaptive finite element analysis of microwave driven convection. **1996**, 23, 177-186		10
1581	An h-p-n adaptive finite element scheme for shell problems. **1996**, 26, 201-207		6
1580	Adaptive analysis of stiffened structures using stiffened plate bending elements. **1996**, 65, 117-125		7

1579	Asymptotic formulae for correcting finite element predicted natural frequencies of gravity and embankment dams. **1996**, 15, 161-169	2
1578	Transfer operators for evolving meshes in small strain elasto-placticity. **1996**, 137, 331-344	109
1577	A posteriori error estimation for elasto-plastic problems based on duality theory. **1996**, 138, 317-339	26
1576	Mesh Refinement Formulations in Adaptive Finite Element Methods. **1996**, 210, 353-361	5
1575	Back Matter. **1996**, 397-407	
1574	Analyses l'ments finis adaptatives pour les structures tridimensionnelles en l'asticit. **1996**, 5, 341-373	12
1573	Origins, milestones and directions of the finite element methodA personal view. **1996**, 4, 3-67	4
1572	Coupled 3D thermo-electro-mechanical simulations of microactuators.	4
1571	ERROR ESTIMATION AND ADAPTIVITY IN FINITE ELEMENT ANALYSIS OF CONVECTIVE HEAT TRANSFER PROBLEMS, PART I: THEORETICAL CONSIDERATIONS. **1996**, 29, 479-490	5
1570	Finite element modelling of the competition between shear bands in the early stages of thrusting: Strain localization analysis and constitutive law influence. **1996**, 99, 235-250	8
1569	A three-dimensional finite element method for large elastic deformations of ventricular myocardium: I--Cylindrical and spherical polar coordinates. **1996**, 118, 452-63	70
1568	SOLIDIS: a tool for microactuator simulation in 3-D. **1997**, 6, 70-82	36
1567	An Adaptive Finite Element Scheme for Turbulent Free Shear Flows. **1997**, 8, 171-188	10
1566	ADAPTIVE FINITE ELEMENT METHOD FOR CONJUGATE HEATTRANSFER. **1997**, 32, 267-287	19
1565	Adaptive Remeshing for the k-Epsilon Model of Turbulence. **1997**, 35, 640-646	33
1564	Error estimation in finite element transient dynamic analysis using modal superposition. **1997**, 14, 135-158	14
1563	SHAPE OPTIMIZATION WITH ADAPTIVE MESH REFINEMENT: TARGET ERROR SELECTION STRATEGIES. **1997**, 28, 95-125	2
1562	Case Based Approach for Mesh Specification in Adaptive Finite Element Analysis. **1997**, 30, 211-216	

1561	An adaptive meshing automatic scheme based on the strain energy density function. **1997**, 14, 604-629	10
1560	Maillage automatique tridimensionnel par une technique frontale et respect d'une carte de tailles. **1997**, 6, 43-70	2
1559	TOWARDS GENERALIZED SHAPE AND TOPOLOGY OPTIMIZATION. **1997**, 29, 201-216	17
1558	H-version adaptive finite element method using edge element for 3D non-linear magnetostatic problems. **1997**, 33, 1756-1759	7
1557	QUANTIFICATION OF UNCERTAINTY IN COMPUTATIONAL FLUID DYNAMICS. **1997**, 29, 123-160	1117
1556	Grid convergence studies and error estimates for the Euler equations on unstructured grids. **1997**,	1
1555	A unified approach for adaptive solutions of compressible and incompressible flows. **1997**,	15
1554	CALCULATION OF THE STRESS INTENSITY FACTOR AND ESTIMATION OF ITS ERROR BY A SHAPE SENSITIVITY ANALYSIS. **1997**, 20, 813-828	9
1553	Adaptive mesh generation on arbitrarily curved shell structures. **1997**, 64, 209-220	5
1552	Error estimation and adaptive procedures based on superconvergent patch recovery (SPR) techniques. **1997**, 4, 203-242	20
1551	Nodal sensitivities as error estimates in computational mechanics. **1997**, 121, 191-213	22
1550	A fatigue model for shape optimization. **1997**, 14, 36-44	9
1549	Three-dimensional finite element adaptive analysis of incompressible flow based on control of node density distribution and a posteriori error estimation. **1997**, 28, 173-187	0
1548	An auto-adaptive finite element analysis software for stiffened plate and shell structures. **1997**, 28, 285-291	2
1547	Adaptive finite element analysis of stiffened shells. **1997**, 28, 501-507	6
1546	Adaptive simulation of fracture processes based on spatial enumeration techniques. **1997**, 34, 188.e1-188.e14	2
1545	An a posteriori error estimate for finite element approximations of a singularly perturbed advection-diffusion problem. **1997**, 87, 227-242	5
1544	A posteriori error estimation for nonlinear variational problems. **1997**, 324, 1169-1174	2

1543   Uncertainties in probabilistic numerical analysis of structures and solids-Stochastic finite elements. **1997**, 19, 283-336   265

1542   Automatic adaptive refinement finite element procedure for 3D stress analysis. **1997**, 25, 135-166   19

1541   Mesh adaptation strategies for problems in fluid dynamics. **1997**, 25, 243-273   123

1540   A simple p-adaptive refinement procedure for structural shape optimization. **1997**, 24, 133-155   2

1539   A posteriori error estimation and three-dimensional automatic mesh generation. **1997**, 25, 167-184   21

1538   Adaptive mesh generation using a normal offsetting technique. **1997**, 25, 275-295   8

1537   Optimization of finite element grids using shape sensitivity analysis in terms of nodal positions. **1997**, 26, 1-19   3

1536   A posteriori error estimators related to equilibrium defaults of finite element solutions for elastostatic problems. **1997**, 26, 171-192   8

1535   Multilevel iterative solution and adaptive mesh refinement for mixed finite element discretizations. **1997**, 23, 97-117   5

1534   A posteriori error estimation in finite element analysis. **1997**, 142, 1-88   460

1533   3D mesh adaptation. Optimization of tetrahedral meshes by advancing front technique. **1997**, 141, 335-354   21

1532   Adaptive Lagrangian modelling of ballistic penetration of metallic targets. **1997**, 142, 269-301   218

1531   C1-Continuous stress recovery in finite element analysis. **1997**, 143, 299-316   19

1530   A posteriori error estimation the relationship between different procedures. **1997**, 150, 411-422   25

1529   Coupled model- and solution-adaptivity in the finite-element method. **1997**, 150, 327-350   50

1528   The finite element patch test revisited a computer test for convergence, validation and error estimates. **1997**, 149, 223-254   51

1527   A posteriori error estimator and adaptive procedures for computation of shakedown and limit loads on pressure vessels. **1997**, 150, 155-171   7

1526   PZ: An object oriented environment for scientific programming. **1997**, 150, 133-153   29

1525	A posteriori error estimator based on the second derivative of the displacement field for two-dimensional elastic problems. **1997**, 62, 317-338		7
1524	Error estimation with postprocessed finite element solutions. **1997**, 64, 113-137		8
1523	An element by element recovery method with built-in field equations. **1997**, 64, 177-196		4
1522	Built-in field equations for recovery procedures. **1997**, 64, 157-176		7
1521	Error estimation and time-space parameters optimization for FEM non-linear computation. **1997**, 64, 145-156		15
1520	Modified h-method with directional error estimate for finite element stress analysis. **1997**, 65, 191-204		2
1519	Adaptive mesh refinement for localised phenomena. **1997**, 63, 475-495		17
1518	A new h-adaptive refinement scheme for the boundary element method using local reanalysis. **1997**, 82, 239-271		3
1517	Interactive shape optimization of continuum structures. **1997**, 19, 325-331		11
1516	RECOVERY BY EQUILIBRIUM IN PATCHES (REP). *International Journal for Numerical Methods in Engineering*, **1997**, 40, 137-164	2.4	103
1515	ALGORITHMIC ASPECTS OF ADAPTIVE MULTIGRID FINITE ELEMENT ANALYSIS. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 919-936	2.4	7
1514	A SUPERCONVERGENT STRESS RECOVERY TECHNIQUE WITH EQUILIBRIUM CONSTRAINT. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 1139-1160	2.4	35
1513	EXTENSION OF THE ZIENKIEWICZ-ZHU ERROR ESTIMATOR TO SHAPE SENSITIVITY ANALYSIS. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 1413-1433	2.4	15
1512	FINITE ELEMENT REMESHING: A METAL FORMING APPROACH FOR QUADRILATERAL MESH GENERATION AND REFINEMENT. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 1449-1464	2.4	29
1511	AUTOMATIC ADAPTIVE 3-D FINITE ELEMENT REFINEMENT USING DIFFERENT-ORDER TETRAHEDRAL ELEMENTS. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 2195-2226	2.4	22
1510	COMBINATION OF ADAPTIVITY AND MESH SMOOTHING FOR THE FINITE ELEMENT ANALYSIS OF SHELLS WITH INTERSECTIONS. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 2459-2474	2.4	13
1509	A MODEL STUDY OF THE QUALITY OF A POSTERIORI ERROR ESTIMATORS FOR FINITE ELEMENT SOLUTIONS OF LINEAR ELLIPTIC PROBLEMS, WITH PARTICULAR REFERENCE TO THE BEHAVIOR NEAR THE BOUNDARY. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 2521-2577	2.4	45
1508	An improved REP recovery and the effectivity robustness test. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 3247-3277	2.4	79

1507	An error calculation method for finite element analysis in large displacements. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 3703-3728	2.4	2
1506	On using different finite elements with an automatic adaptive refinement procedure for the solution of 2-D stress analysis problems. *International Journal for Numerical Methods in Engineering*, **1997**, 40, 4547-4576	2.4	7
1505	AN ADAPTIVE FINITE ELEMENT METHOD FOR A TWO-EQUATION TURBULENCE MODEL IN WALL-BOUNDED FLOWS. **1997**, 24, 101-120		42
1504	An adaptive finite element method for forced convection. **1997**, 25, 803-823		16
1503	Adaptive Finite-Element Solution of the Nonlinear Poisson-Boltzmann Equation: A Charged Spherical Particle at Various Distances from a Charged Cylindrical Pore in a Charged Planar Surface. **1997**, 187, 363-74		44
1502	An adaptive method for the automatic triangulation of 3D parametric surfaces. **1998**, 30, 139-149		65
1501	Adaptive basis set for quantum mechanical calculation based on hierarchical finite element method. **1998**, 295, 423-430		6
1500	A Review of A Posteriori Error Estimation Techniques for Elasticity Problems. **1998**, 257-274		2
1499	Influence of anisotropy on local and global measures of potential gradient in computer models of defibrillation. **1998**, 26, 840-9		20
1498	A posteriori error estimation of steady-state finite element solutions of the NavierStokes equations by a subdomain residual method. **1998**, 159, 19-48		20
1497	Adaptive modelling of plates in bending and shear. **1998**, 68, 653-663		7
1496	Die entry pressure drops in paste extrusion. **1998**, 53, 3215-3225		66
1495	Adaptive local regularization methods for the inverse ECG problem. **1998**, 69, 405-23		11
1494	An Adaptive Mesh Refinement Algorithm for the Radiative Transport Equation. **1998**, 139, 380-398		41
1493	Automatic adaptive refinement for plate bending problems using ReissnerMindlin plate bending elements. *International Journal for Numerical Methods in Engineering*, **1998**, 41, 1-63	2.4	17
1492	Minimization of the discretization error in mass and stiffness formulations by an inverse method. *International Journal for Numerical Methods in Engineering*, **1998**, 41, 371-387	2.4	33
1491	Generation and optimization of tetrahedral meshes by advancing front technique. *International Journal for Numerical Methods in Engineering*, **1998**, 41, 651-674	2.4	41
1490	Adaptive selection of polynomial degrees on a finite element mesh. *International Journal for Numerical Methods in Engineering*, **1998**, 42, 561-578	2.4	9

1489	Simulation of two-fluid flows by the least-squares finite element method using a continuum surface tension model. *International Journal for Numerical Methods in Engineering*, **1998**, 42, 583-600	2.4	20
1488	On using different recovery procedures for the construction of smoothed stress in finite element method. *International Journal for Numerical Methods in Engineering*, **1998**, 43, 1223-1252	2.4	13
1487	Generalized conservation checks in finite element analysis. **1998**, 43, 1295-1307		4
1486	Adaptive mesh-updating methods for non-linear finite element analysis of shells. **1998**, 43, 1523-1544		2
1485	Finite element adaptive mesh analysis using a cluster of workstations. **1998**, 27, 179-192		2
1484	A unified mesh refinement method with applications to porous media flow. **1998**, 28, 679-702		5
1483	An automatic mesh coarsening technique for Delaunay triangulations. **1998**, 14, 59-63		2
1482	3D adaptive mesh refinement. **1998**, 14, 397-407		7
1481	On solving nearly incompressible 2D problems using an adaptive refinement procedure. **1998**, 14, 409-418		4
1480	An rh-method for efficient adaptive finite element analysis. **1998**, 14, 549-558		3
1479	Error estimation in adaptive BEM by postprocessing interpolation. **1998**, 14, 633-645		2
1478	A study on the finite element preprocessing for the analysis and design with discontinuous composites. **1998**, 12, 73		1
1477	An asymptotically exact finite element error estimator based on C1 stress recovery. **1998**, 154, 319-329		2
1476	An improved variational method for finite element stress recovery and a posteriori error estimation. **1998**, 155, 15-30		39
1475	Computational aspects of disturbed state constitutive models. **1998**, 151, 361-376		24
1474	Adaptive finite element techniques for frictional contact problems involving large elastic strains. **1998**, 151, 593-603		20
1473	Implementation and adaptivity of a space-time finite element method for structural dynamics. **1998**, 156, 211-229		82
1472	A new a posteriori error estimation for nonlinear time-dependent finite element analysis. **1998**, 157, 45-68		38

| 1471 | A posteriori error estimation and adaptivity for linear elasticity using the reciprocal theorem. **1998**, 156, 351-362 | 84 |

| 1470 | A tutorial in elementary finite element error analysis: A systematic presentation of a priori and a posteriori error estimates. **1998**, 158, 1-22 | 31 |

| 1469 | On constructing accurate recovered stress fields for the finite element solution of Reissner-Mindlin plate bending problems. **1998**, 160, 175-191 | 4 |

| 1468 | An automatic adaptive meshing technique for Delaunay triangulations. **1998**, 161, 297-303 | 12 |

| 1467 | A posteriori error estimation for standard finite element analysis. **1998**, 163, 141-157 | 43 |

| 1466 | An improved superconvergent patch recovery technique for the axisymmetrical problems. **1998**, 66, 799-821 | 6 |

| 1465 | Parallel adaptive tetrahedral mesh generation by the advancing front technique. **1998**, 68, 57-78 | 10 |

| 1464 | A simple error indicator for adaptive boundary element method. **1998**, 68, 433-443 | 3 |

| 1463 | Selective regional refinement procedure for adaptive finite element analysis. **1998**, 68, 325-341 | 4 |

| 1462 | A Three-dimensional Stress Recovery Procedure for Composite Materials. **1998**, 69, 567-575 | 3 |

| 1461 | An Adaptive Multigrid Solver for Plate Vibration and Buckling Problems. **1998**, 69, 625-637 | 5 |

| 1460 | Improved adaptive quadrilateral mesh generation using fission elements. **1998**, 29, 733-744 | 4 |

| 1459 | Safety analysis using finite elements. **1998**, 22, 165-181 | 44 |

| 1458 | H-adaptive FE analysis of elasto-plastic non-homogeneous soil with large deformation. **1998**, 23, 61-83 | 101 |

| 1457 | Estimations d'erreurs en lois de comportement. **1998**, 326, 1007-1010 | 6 |

| 1456 | Different a posteriori error estimators and indicators for contact problems. **1998**, 28, 437-447 | 28 |

| 1455 | Automatic triangular mesh generation of trimmed parametric surfaces for finite element analysis. **1998**, 15, 199-222 | 68 |

| 1454 | An h-adaptive SUPG-FEM solution of the pure advection equation. **1998**, 26, 193-202 | 4 |

1453	Explicit Error Bounds for a Nonconforming Finite Element Method. **1998**, 35, 2099-2115	21
1452	Mixed-element decomposition method for three-dimensional grid adaptation. **1998**, 17, 561-572	1
1451	An element stress recovery technique with equilibrium constraint for superconvergent boundary stress extraction. **1998**,	0
1450	Experimental and numerical investigations of the interface profile close to a moving contact line. **1998**, 10, 789-799	24
1449	The relationship of some a posteriori error estimators. **1998**, 47, 25-42	1
1448	Adaptative finite element analysis for strongly heterogeneous elasticity problems. **1998**, 7, 635-655	1
1447	Adaptive Finite Element Solution of Compressible Turbulent Flows. **1998**, 36, 2187-2194	23
1446	Finite-element applications to the nonlinear mechanics of solids. **1998**, 61, 1495-1574	17
1445	Recovery Procedures in Error Estimation and Adaptivity: Adaptivity in Linear Problems. **1998**, 3-23	5
1444	Adaptive finite elements in elastoplasticity with mechanical error indicators and Neumann-type estimators. **1998**, 81-99	7
1443	Recovery procedures in error estimation and adaptivity: Adaptivity in non-linear problems of elasto-plasticity behaviour. **1998**, 383-410	8
1442	A Posteriori Constitutive Relation Error Estimators for Nonlinear Finite Element Analysis and Adaptive Control. **1998**, 231-256	9
1441	A Posteriori Error Control and Mesh Adaptation for FE models in Elasticity and Elasto-Plasticity. **1998**, 275-292	13
1440	Error estimator and adaptivity for three-dimensional finite element analyses. **1998**, 443-457	3
1439	An adaptive solution procedure for rotorcraft aerodynamics. **1998**,	4
1438	A novel four-node quadrilateral smoothing element for stress enhancement and error estimation. **1998**,	0
1437	A new element bisection algorithm for unstructured adaptive tetrahedral mesh generation. **1998**, 15, 588-615	3
1436	A simple local a posteriori bending indicator for axisymmetric membrane and bending shell elements. **1998**, 15, 977-988	4

| 1435 | Error calculation in the constitutive relation for Mindlin plate finite element analyses. **1998**, 15, 837-863 | 2 |

| 1434 | A metal-forming approach to automatic generation of graded initial quadrilateral finite element meshes. **1998**, 15, 577-587 | 6 |

| 1433 | Adaptive solutions in industrial forming process simulation. **1998**, 47, 365-381 | 6 |

| 1432 | Adaptive finite element solution of compressible turbulent flows. **1998**, | 2 |

| 1431 | Error estimation for plate structures. **1999**, 16, 584-600 | 8 |

| 1430 | Element Stress Recovery Technique with Equilibrium Constraints for Superconvergent Boundary Stress Extraction. **1999**, 37, 623-628 | 6 |

| 1429 | Hierarchical basis multilevel preconditioners for 3D magnetostatic problems. **1999**, 35, 1143-1146 | 6 |

| 1428 | Contrle et adaptation des calculs lments finis pour les problmes de contact unilatral. **1999**, 8, 7-29 | 6 |

| 1427 | Evaluation de la qualit d'analyses par lments finis: effets lis ^ la discrtisation. Application au cas de la mcanique de l'endommagement. **1999**, 3, 645-656 | 1 |

| 1426 | A-Posteriori Error Estimation and Adaptivity for the Finite Element Method Using Duality Principles. **1999**, 79, 139-142 | 1 |

| 1425 | A full 3D finite element analysis using adaptive refinement and PCG solver with back interpolation. **1999**, 170, 39-64 | 12 |

| 1424 | Computational techniques applied to high-speed machining under adiabatic strain localization conditions. **1999**, 171, 445-461 | 55 |

| 1423 | Error estimation and adaptive meshing in strongly nonlinear dynamic problems. **1999**, 172, 203-240 | 141 |

| 1422 | Recovery procedures in error estimation and adaptivity Part I: Adaptivity in linear problems. **1999**, 176, 111-125 | 48 |

| 1421 | Constitutive relation error estimator for transient finite element analysis. **1999**, 176, 165-185 | 15 |

| 1420 | On adaptive strategies for large deformations of elasto-plastic solids at finite strains: computational issues and industrial applications. **1999**, 176, 279-312 | 50 |

| 1419 | The relationship of some a posteriori estimators. **1999**, 176, 463-475 | 8 |

| 1418 | Adaptive computation of impact force under low velocity impact. **1999**, 70, 229-241 | 8 |

| 1417 | Adaptive h-version eigenfrequency analysis. **1999**, 71, 565-584 | 17 |

| 1416 | Improved eigenfrequencies and eigenmodes in free vibration analysis. **1999**, 73, 79-89 | 12 |

| 1415 | Admissible fields and error estimation for acoustic FEA with low wavenumbers. **1999**, 73, 227-237 | 10 |

| 1414 | Polynomial representations for patch recovery procedures. **1999**, 73, 119-146 | 4 |

| 1413 | Adaptive control for finite element analysis in plasticity. **1999**, 73, 45-60 | 15 |

| 1412 | Error estimation and adaptivity in explicit nonlinear finite element simulation of quasi-static problems. **1999**, 72, 627-644 | 20 |

| 1411 | An adaptive finite element approach to atomic-scale mechanics the quasicontinuum method. **1999**, 47, 611-642 | 479 |

| 1410 | The one-dimensional transient diffusional method: finite element adaptive solutions to convection-diffusion problems. **1999**, 38, 780-796 | 5 |

| 1409 | An adaptive mesh h-refinement algorithm for the finite-element modeling of sheet forming. **1999**, 91, 183-190 | 7 |

| 1408 | Adaptive finite element analysis on a parallel and distributed environment. **1999**, 25, 1413-1434 | 9 |

| 1407 | Adaptive finite element analysis of structures under transient dynamic loading using modal superposition. **1999**, 31, 255-272 | 7 |

| 1406 | Application of Zienkiewicz Zhu's error estimate with superconvergent patch recovery to hierarchical p-refinement. **1999**, 31, 273-280 | 13 |

| 1405 | Finite element discretization by minimization of elastic strain energy method. **1999**, 32, 63-70 | 1 |

| 1404 | A posteriori error estimation and error control for finite element approximations of the time-dependent Navier Stokes equations. **1999**, 33, 247-262 | 16 |

| 1403 | An a posteriori error estimator for plane-strain geotechnical analyses. **1999**, 33, 335-354 | 5 |

| 1402 | Finite element analysis of flow patterns near geological lenses in hydrodynamic and hydrothermal systems. **1999**, 138, 146-158 | 28 |

| 1401 | Adaptive methods for hybrid equilibrium finite element models. **1999**, 176, 19-39 | 34 |

| 1400 | Error through the constitutive relation for beam and C0 plate finite elements: static and vibration analyses. **1999**, 176, 81-109 | 5 |

1399	Recovery procedures in error estimation and adaptivity. Part II: Adaptivity in nonlinear problems of elasto-plasticity behaviour. **1999**, 176, 127-146	58
1398	A unified approach to remeshing strategies for finite element h-adaptivity. **1999**, 176, 215-229	51
1397	Constitutive relation error estimators for (visco)plastic finite element analysis with softening. **1999**, 176, 247-264	35
1396	A posteriori error estimation and mesh adaptation for finite element models in elasto-plasticity. **1999**, 176, 333-361	61
1395	A review of a posteriori error estimation techniques for elasticity problems. **1999**, 176, 419-440	80
1394	The reliability of solutions in contact problems. **1999**, 70, 35-45	6
1393	Error estimation through the constitutive relation for ReissnerMindlin plate bending finite elements. **1999**, 73, 615-627	8
1392	Built-in field equations for patch recovery procedures using weighted residuals. **1999**, 73, 91-118	3
1391	Adaptive FE-analysis of column supported ReissnerMindlin plates. **1999**, 72, 605-626	5
1390	Superconvergent recovery based error estimators. **1999**, 50, 97-114	2
1389	A unified approach to a posteriori error estimation based on duality error majorants. **1999**, 50, 305-321	19
1388	Three-dimensional contact model for numerically analyzing pressure distribution in wear. **1999**, 7, 183-197	6
1387	Towards Realistic Automated 3D Modelling of Metal Forming Problems. **1999**, 15, 356-374	8
1386	A multilevel treatment of moir'fringe data using finite elements. **1999**, 39, 304-310	1
1385	A posteriori error estimates for approximate solutions to variational problems with strongly convex functionals. **1999**, 97, 4311-4328	14
1384	Adaptive Mesh Refinement Computation of Solidification Microstructures Using Dynamic Data Structures. **1999**, 148, 265-290	200
1383	Analysis of a class of superconvergence patch recovery techniques for linear and bilinear finite elements. **1999**, 15, 151-167	44
1382	Superconvergent Patch Recovery for plate problems using statically admissible stress resultant fields. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 697-727	2.4 16

1381	On a robust and scalable linear elasticity solver based on a saddle point formulation. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 801-818	2.4	11
1380	A coding error elimination procedure for verifying finite element programs with forced and natural boundary conditions. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 1187-1204	2.4	1
1379	A novel four-node quadrilateral smoothing element for stress enhancement and error estimation. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 1527-1543	2.4	21
1378	On using degenerated solid shell elements in adaptive refinement analysis. *International Journal for Numerical Methods in Engineering*, **1999**, 45, 627-659	2.4	11
1377	Shear stresses in prismatic beams with arbitrary cross-sections. *International Journal for Numerical Methods in Engineering*, **1999**, 45, 865-889	2.4	68
1376	Multilevel solution of the time-harmonic Maxwell's equations based on edge elements. *International Journal for Numerical Methods in Engineering*, **1999**, 45, 901-920	2.4	38
1375	A superconvergent stress recovery technique for accurate boundary stress extraction. *International Journal for Numerical Methods in Engineering*, **1999**, 45, 1227-1242	2.4	5
1374	Control of analyses with isoparametric elements in both 2-D and 3-D. *International Journal for Numerical Methods in Engineering*, **1999**, 46, 157-176	2.4	10
1373	A fast numerical homogenization algorithm for finite element analysis. *International Journal for Numerical Methods in Engineering*, **1999**, 46, 1639-1649	2.4	3
1372	Adaptive finite element procedures for linear and non-linear dynamics. *International Journal for Numerical Methods in Engineering*, **1999**, 46, 1781-1802	2.4	47
1371	Adaptive finite element strategies based on error assessment. *International Journal for Numerical Methods in Engineering*, **1999**, 46, 1803-1818	2.4	56
1370	Simulation of free and forced convection incompressible flows using an adaptive parallel/vector finite element procedure. **1999**, 29, 289-309		10
1369	Adaptive finite element computations of complex flows. **1999**, 31, 189-202		41
1368	Adaptivity in space and time for shallow water equations. **1999**, 31, 285-297		4
1367	General Introduction. **1999**, xi-xxiv		
1366	A method for treating discretization error in nondeterministic analysis. **1999**,		1
1365	A Posteriori Finite Element Error Analysis for Symmetric Positive Differential Equations. **1999**, 20, 473-490		1
1364	A new posteriori error estimation concept for three-dimensional finite element solution. **1999**, 35, 1446-1449		1

1363	Adaptive Finite Elements for Elastic Bodies in Contact. **1999**, 20, 1605-1626	44
1362	Finite Element Analysis for Transient Non-Newtonian Flow. **1999**, 95-128	
1361	Integrated Solution- and Model-Adaptivity in Finite-Element-Analysis of Plates and Shells. **1999**, 13-26	
1360	Solution of Steady and Transient Advection Problems using an h-Adaptive Finite Element Method. **1999**, 11, 249-259	5
1359	ADAPTIVE AND STOCHASTIC FINITE ELEMENT ANALYSIS IN DRYING. **1999**, 17, 2037-2053	5
1358	Explicit error bounds in a conforming finite element method. **1999**, 68, 1379-1397	75
1357	A posteriori error control in low-order finite element discretisations of incompressible stationary flow problems. **2000**, 70, 1353-1382	41
1356	Comparison of different error estimators for contact problems. **2000**, 17, 255-273	2
1355	Three-dimensional finite element analysis for hollow section extrusion of a triply-connected section using mismatching refinement with domain decomposition. **2000**, 17, 235-255	3
1354	A quadrilateral mesh generator for adaptive procedures in bulk forming processes. **2000**, 17, 950-969	2
1353	A posteriori error estimation and adaptivity for elastoplasticity using the reciprocal theorem. *International Journal for Numerical Methods in Engineering*, **2000**, 47, 379-393	2.4	25
1352	Adaptive mesh generation for fluid mechanics problems. *International Journal for Numerical Methods in Engineering*, **2000**, 47, 629-662	2.4	37
1351	Stress recovery and error estimation for shell structures. *International Journal for Numerical Methods in Engineering*, **2000**, 47, 1825-1840	2.4	13
1350	Mismatching refinement with domain decomposition for the analysis of steady-state metal forming process. *International Journal for Numerical Methods in Engineering*, **2000**, 48, 1089-1106	2.4	9
1349	A new finite element formulation for both compressible and nearly incompressible fluid dynamics. **2000**, 32, 43-67	6
1348	Coupled computations for an elastic-perfectly plastic soil using adaptive mesh refinement. **2000**, 24, 453-476	9
1347	Adaptivity based on error estimation for viscoplastic softening materials. **2000**, 5, 87-112	32
1346	Surface remeshing by local hermite diffuse interpolation. *International Journal for Numerical Methods in Engineering*, **2000**, 49, 31-49	2.4	43

1345	Adaptive finite element analysis of mixed-mode crack problems with automatic mesh generator. *International Journal for Numerical Methods in Engineering*, **2000**, 49, 1087-1100	2.4	14
1344	Adjoint Error Estimation and Grid Adaptation for Functional Outputs: Application to Quasi-One-Dimensional Flow. **2000**, 164, 204-227		153
1343	A piecewise linear Galerkin approach to stress analysis of nearly incompressible materials. **2000**, 16, 537-543		3
1342	Two-mesh refinement indicators and adaptivity in non-linear explicit finite element analysis of shells using LS-DYNA. **2000**, 16, 785-800		4
1341	An adaptive finite element algorithm for gradient theory of plasticity with coupling to damage. **2000**, 37, 7481-7499		16
1340	Error estimation including pollution assessment for nonlinear finite element analysis. **2000**, 181, 21-41		39
1339	A posteriori error estimation for unilateral contact with matching and non-matching meshes. **2000**, 186, 65-83		30
1338	Development of a CAE system based on the node-by-node meshless method. **2000**, 187, 1-34		9
1337	Enhanced linear triangle for plasticity problems in J?2 solids. **2000**, 188, 145-163		5
1336	Three-dimensional welding analysis using an adaptive mesh scheme. **2000**, 189, 515-523		49
1335	Adaptive CFD analysis for rotorcraft aerodynamics. **2000**, 189, 1055-1076		12
1334	A universal formulation of two-equation models for adaptive computation of turbulent flows. **2000**, 189, 1119-1139		28
1333	A comparison of three error estimation techniques for finite-volume solutions of compressible flows. **2000**, 189, 1277-1294		28
1332	A fast hp adaptive finite element mesh design. **2000**, 190, 133-148		4
1331	A numerical study of a posteriori error estimators for convection-diffusion equations. **2000**, 190, 757-781		64
1330	An efficient adaptive strategy to master the global quality of viscoplastic analysis. **2000**, 78, 169-183		11
1329	Local and global error estimations in linear structural dynamics. **2000**, 76, 741-756		24
1328	Analysis of a least squares finite element method for the circular arch problem. **2000**, 114, 263-278		8

| 1327 | Least-squares finite element approximations to the Timoshenko beam problem. **2000**, 115, 63-75 | 8 |

| 1326 | Remeshing Techniques and Data Transfer in the Adaptive FEM. **2000**, 80, 507-508 | 2 |

| 1325 | Aspects of Adaptive Remeshing Techniques in Finite Elasticity. **2000**, 80, 531-532 | 1 |

| 1324 | Adaptative finite element simulation of currents at microelectrodes to a guaranteed accuracy. Application to a simple model problem. **2000**, 2, 150-156 | 33 |

| 1323 | How accurate is your solution?. **2000**, 95, 1-33 | 27 |

| 1322 | An a posteriori finite element error analysis for the stokes equations. **2000**, 114, 333-343 | 3 |

| 1321 | Simulation of cold forging using contact and practical adaptive meshing algorithms. **2000**, 104, 110-126 | 5 |

| 1320 | Adaptive finite element analysis of fractal interfaces in contact problems. **2000**, 182, 17-37 | 9 |

| 1319 | Adaptive finite element computational fluid dynamics using an anisotropic error estimator. **2000**, 182, 379-400 | 46 |

| 1318 | Composite mesh concept based FEM error estimation and solution improvement. **2000**, 188, 755-774 | 4 |

| 1317 | Visco-plastic h-adaptive analysis. **2000**, 78, 123-131 | 1 |

| 1316 | Finite element modeling of clinch forming with automatic remeshing. **2000**, 77, 185-200 | 83 |

| 1315 | Numerical Methods for Accurate Computation of Design Sensitivities for Two-Dimensional Navier-Stokes Problems. **2000**, 1, 277-304 | |

| 1314 | A posteriori error estimation for nonlinear variational problems by duality theory. **2000**, 99, 927-935 | 12 |

| 1313 | Weighted Error Estimates for Finite Element Solutions of Variational Inequalities. **2000**, 65, 119-134 | 20 |

| 1312 | Method for Treating Discretization Error in Nondeterministic Analysis. **2000**, 38, 910-916 | 5 |

| 1311 | Multifield Problems. **2000**, | 2 |

| 1310 | Using C++ templates to implement finite element classes. **2000**, 17, 775-788 | 4 |

1309	Grid adaptation for functional outputs of 2-D compressible flow simulations. **2000**,	1
1308	Error estimation and control for the Euler equations. **2000**,	2
1307	Gradient-based refinement indicators in adaptive finite element analysis with special reference to sheet metal forming. **2000**, 17, 910-932	2
1306	h-adaptive finite element solution of high Rayleigh number thermally driven cavity problem. **2000**, 10, 598-615	53
1305	Simulation of the thermoelastic behavior of an LLL x-ray interferometer. **2000**, 71, 1716-1722	5
1304	Numerical simulation of localized damage through automatic finite element remeshing based on bubble packing method. **2001**,	
1303	Mesh adaptation using different error indicators for the Euler equations. **2001**,	8
1302	Differentiating between source and location of error for solution-adaptive mesh refinement. **2001**,	5
1301	Adaptive Finite Element Method for Wind Engineering Problems. **2001**, 1	
1300	A Posteriori Error Control of Finite Element Approximations for Coulomb's Frictional Contact. **2001**, 23, 976-999	16
1299	Finite-element modeling of dry sliding wear in metals. **2001**, 18, 592-610	56
1298	Adaptive multiresolution antenna modeling using hierarchical mixed-order tangential vector finite elements. **2001**, 49, 211-222	12
1297	Error Control in Frictional Contact Problems. **2001**, 697-706	
1296	Interior Penalty Discontinuous Approximations of Elliptic Problems. **2001**, 1, 367-382	8
1295	Grid-quality measures for structured and unstructured meshes. **2001**,	12
1294	Adaptive refinement of quadrilateral finite element shell meshes. **2001**,	0
1293	Adaptive analysis in elastoplasticity based on an enhanced error in constitutive relation. **2001**, 18, 974-995	2
1292	Error control and mesh adaptation for the Euler equations. **2001**,	2

1291 Embedding Reliable Numerical Analysis Capabilities into an Enterprise-Wide Information System. **2001**, 17, 151-161 | 5

1290 Recovery type a posteriori error estimates in finite element methods. **2001**, 8, 235 | 5

1289 Error estimation and h-adaptive refinement in the analysis of natural frequencies. **2001**, 38, 137-153 | 6

1288 A plasticity model for metal powder forming processes. **2001**, 17, 1659-1692 | 72

1287 Modelling the stress vector continuity at the interface of bonded joints. **2001**, 21, 249-257 | 24

1286 Fast and accurate discrete ordinates methods for multidimensional radiative transfer. Part I, basic methods. **2001**, 69, 671-707 | 78

1285 Averaging technique for FE a posteriori error control in elasticity. Part I: Conforming FEM. **2001**, 190, 2483-2498 | 50

1284 A computational methodology for shape optimization of structures in frictionless contact. **2001**, 190, 4043-4060 | 21

1283 A residual a posteriori error estimator for the finite element solution of the Helmholtz equation. **2001**, 190, 4027-4042 | 28

1282 Averaging technique for FE a posteriori error control in elasticity. Part II: Independent estimates. **2001**, 190, 4663-4675 | 19

1281 Enhanced error estimator for adaptive finite element analysis of 3D incompressible flow. **2001**, 190, 5413-5426 | 7

1280 A fully 3D adaptive finite element simulation and prototype for gas flow in a porous media. **2001**, 32, 119-131 | 1

1279 On stiffness properties of square honeycombs and other unidirectional composites. **2001**, 32, 503-511 | 14

1278 Error estimation and adaptive mesh refinement in boundary element method, an overview. **2001**, 25, 479-495 | 46

1277 Mid-node admissible spaces for quadratic triangular 2D finite elements with one edge curved. *International Journal for Numerical Methods in Engineering*, **2001**, 50, 181-197 | 2.4 | 2

1276 Adaptive multigrid method using duality in plane elasticity. *International Journal for Numerical Methods in Engineering*, **2001**, 50, 95-118 | 2.4 | 0

1275 An adaptive finite element approach for frictionless contact problems. *International Journal for Numerical Methods in Engineering*, **2001**, 50, 395-418 | 2.4 | 14

1274 Adaptivity in computational mechanics of concrete structures. **2001**, 25, 711-739 | 12

1273	A combined rh-adaptive scheme based on domain subdivision. Formulation and linear examples. *International Journal for Numerical Methods in Engineering*, **2001**, 51, 253-273	2.4	23
1272	Time- and space-adaptive methods applied to localization phenomena in empty and saturated micropolar and standard porous materials. *International Journal for Numerical Methods in Engineering*, **2001**, 52, 503-526	2.4	18
1271	Nonnested multigrid methods for linear problems. **2001**, 17, 313-331		5
1270	An adaptive displacement/pressure finite element scheme for treating incompressibility effects in elasto-plastic materials. **2001**, 17, 369-382		3
1269	Adaptive Mesh Enrichment for the Poisson-Boltzmann Equation. **2001**, 172, 198-208		17
1268	Unification of stress intensity factor (SIF) extraction methods with an h-adaptive finite element scheme. **2001**, 17, 509-520		5
1267	Smoothing and adaptive remeshing schemes for graded element. **2001**, 17, 1-17		10
1266	An adaptive approach to limit analysis. **2001**, 38, 1707-1720		37
1265	Application of an adaptive grid refinement technique to three-dimensional finite element analysis of the filling stage in the die-casting process. **2001**, 111, 59-63		5
1264	Gradient weighted residuals for error indicators in FEM and BEM. **2001**, 25, 593-606		
1263	Adaptive methods for frictionless contact problems. **2001**, 79, 2197-2208		11
1262	FINITE ELEMENT APPROXIMATIONS OF CONFORMAL MAPPINGS. **2001**, 22, 419-440		6
1261	Environmental Geomechanics. **2001**,		1
1260	PROBABILISTIC ANALYSIS OF AN A POSTERIORI ERROR ESTIMATOR FOR FINITE ELEMENTS. **2001**, 11, 841-854		5
1259	A posteriori L2 error estimation on anisotropic tetrahedral finite element meshes. **2001**, 21, 503-523		13
1258	Enhancing structural topology optimization. **2001**, 18, 663-675		18
1257	GRADIENT RECOVERY FOR SINGULARLY PERTURBED BOUNDARY VALUE PROBLEMS II: TWO-DIMENSIONAL CONVECTION-DIFFUSION. **2001**, 11, 1169-1179		6
1256	Static and Modal Analysis of Twin-Cell Box Girder Structures. **2001**, 39, 1406-1410		3

1237	Adaptive Refinement of Quadrilateral Finite Element Meshes Based Upon A Posteriori Error Estimation of Quantities of Interest. **2002**,		0
1236	The wall and multivalent counterion effects on the electrostatic force between like-charged spherical particles confined in a charged pore. **2002**, 255, 138-44		6
1235	Grid Adaptation for Functional Outputs: Application to Two-Dimensional Inviscid Flows. **2002**, 176, 40-69		240
1234	Semi-analytical elastostatic analysis of unbounded two-dimensional domains. **2002**, 26, 1031-1057		26
1233	Asymptotical expansion in non-Lipschitzian domains a numerical approach. **2002**, 9, 467-492		4
1232	Three-dimensional adaptive meshing by subdivision and edge-collapse in finite-deformation dynamic plasticity problems with application to adiabatic shear banding. *International Journal for Numerical Methods in Engineering*, **2002**, 53, 1101-1126	2.4	31
1231	A posteriori error estimation in non-linear FE analyses of shell structures. *International Journal for Numerical Methods in Engineering*, **2002**, 53, 2329-2355	2.4	9
1230	Remeshing for metal forming simulations Part II: Three-dimensional hexahedral mesh generation. *International Journal for Numerical Methods in Engineering*, **2002**, 53, 2501-2528	2.4	74
1229	h-Adaptive FE methods applied to single- and multiphase problems. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 219-239	2.4	15
1228	Stress recovery and error estimation for the scaled boundary finite-element method. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 557-583	2.4	38
1227	Linear and non-linear finite element error estimation based on assumed strain fields. *International Journal for Numerical Methods in Engineering*, **2002**, 55, 413-429	2.4	5
1226	Strategies for computing goal-oriented a posteriori error measures in non-linear elasticity. *International Journal for Numerical Methods in Engineering*, **2002**, 55, 879-894	2.4	55
1225	A comparison between new adaptive remeshing strategies based on point wise stress error estimation and energy norm error estimation. **2002**, 18, 469-482		10
1224	Numerical study of the effectivity index for an anisotropic error indicator based on Zienkiewicz Zhu error estimator. **2002**, 19, 13-23		30
1223	A review and comparative study of upwind biased schemes for compressible flow computation. Part III: Multidimensional extension on unstructured grids. **2002**, 9, 207-256		30
1222	Object-oriented Fortran 90 P-adaptive finite element method. **2002**, 33, 461-468		9
1221	Mesh generation and mesh refinement procedures for the analysis of concrete shells. **2002**, 33, 389-402		6
1220	Discretization error estimator for transient dynamic simulations. **2002**, 33, 553-563		9

| 1219 | Transfert de champs plastiquement admissibles. **2002**, 330, 313-318 | 13 |

| 1218 | H-adaptive finite element analysis for localization phenomena with reference to metal powder forming. **2002**, 38, 503-519 | 15 |

| 1217 | Variable-density flow and transport in porous media: approaches and challenges. **2002**, 25, 899-944 | 331 |

| 1216 | Application of a Multilaminate Model to simulation of shear band formation in NATM-tunnelling. **2002**, 29, 501-524 | 31 |

| 1215 | A-posteriori error estimation in axisymmetric geotechnical analyses. **2002**, 29, 587-607 | 3 |

| 1214 | On the adaptive finite element method of steady-state rolling contact for hyperelasticity in finite deformations. **2002**, 191, 1333-1348 | 26 |

| 1213 | Evaluation of the local quality of stresses in 3D finite element analysis. **2002**, 191, 4441-4457 | 27 |

| 1212 | Multi-layer multi-director concepts for D-adaptivity in shell theory. **2002**, 80, 719-734 | 16 |

| 1211 | A computational approach to blanking processes. **2002**, 125-126, 206-212 | 17 |

| 1210 | Local quality of smoothening based a-posteriori error estimators for laminated plates under transverse loading. **2002**, 80, 1477-1488 | 9 |

| 1209 | Local residual error estimator and adaptive finite element analysis of Poisson's problems. **2002**, 80, 2027-2034 | 7 |

| 1208 | Adaptive finite element analysis of structures subjected to transient dynamic loads using time marching scheme. **2002**, 80, 2313-2319 | 5 |

| 1207 | Adaptive numerical method for Poisson Boltzmann equation and its application. **2002**, 147, 335-338 | 15 |

| 1206 | Stress intensity factor error index for finite element analysis with singular elements. **2002**, 70, 657-669 | 5 |

| 1205 | The Quasicontinuum Method: Overview, applications and current directions. **2002**, 9, 203-239 | 326 |

| 1204 | The use of dynamic grid adaptation algorithms for the modelling of flow around a circular cylinder in sub-critical flow regime. **2003**, 41, 789-808 | 9 |

| 1203 | Potential flow around obstacles using the scaled boundary finite-element method. **2003**, 41, 721-741 | 73 |

| 1202 | Solution adaptive grids applied to low Reynolds number flow. **2003**, 42, 1135-1154 | 3 |

1201	Adaptive crack propagation analysis with the element-free Galerkin method. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 331-350	2.4	32
1200	A gradient-based adaptation procedure and its implementation in the element-free Galerkin method. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 1335-1354	2.4	9
1199	Time finite elements and error computation for (visco)plasticity with hardening or softening. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 2213-2232	2.4	17
1198	Adaptive numerical solution of thick plates using first-order shear deformation theory. Part I: Error estimates. **2003**, 19, 44-66		1
1197	Averaging techniques for reliable a posteriori FE-error control in elastoplasticity with hardening. **2003**, 192, 1435-1450		22
1196	Modeling of impact problems using an h-adaptive, explicit Lagrangian finite element method in three dimensions. **2003**, 192, 1649-1679		13
1195	Estimation of discretization errors in dynamics. **2003**, 81, 1133-1148		7
1194	Local error estimator for stresses in 3D structural analysis. **2003**, 81, 1751-1757		14
1193	Dynamic loading of polycrystalline shape memory alloy rods. **2003**, 35, 689-716		59
1192	A remeshing algorithm based on bubble packing method and its application to large deformation problems. **2003**, 39, 301-324		14
1191	3D analysis of the influence of specimen dimensions on fretting stresses. **2003**, 39, 933-949		13
1190	Numerical simulation of colloidal interaction. **2003**, 502, 651-653		
1189	Application of a failure analysis to powder forming processes. **2003**, 143-144, 46-51		1
1188	Steady state simulation of electrode processes with a new error bounded adaptive finite element algorithm. **2003**, 5, 647-656		20
1187	A general purpose adaptivity driver for FE software. **2003**, 33, 1097-1116		1
1186	Focussed adaptivity for laminated plates. **2003**, 81, 287-298		8
1185	Constitutive error estimator for the control of contact problems involving friction. **2003**, 81, 1759-1772		17
1184	Adaptive Galerkin Particle Method. **2003**, 251-265		20

1183	An Adaptivity Procedure Based on the Gradient of Strain Energy Density and its Application in Meshless Methods. **2003**, 267-279	8
1182	Meshless FDM-based approach to error control and evaluation of experimental or numerical data. **2003**, 2026-2030	1
1181	Analysis of columnar joint patterns from three-dimensional stress modeling. **2003**, 108,	23
1180	An Anisotropic Error Indicator Based on Zienkiewicz--Zhu Error Estimator: Application to Elliptic and Parabolic Problems. **2003**, 24, 1328-1355	75
1179	An A Posteriori Error Estimator for the FEM in Nonlinear Elastostatics. **2003**, 24, 2038-2057	2
1178	A Posteriori Finite Element Error Control for the P-Laplace Problem. **2003**, 25, 792-814	19
1177	Computational Damage Mechanics: Application to Metal Forming Simulation. **2003**, 321-376	33
1176	Adaptive mesh generation for mould filling problems in resin transfer moulding. **2003**, 34, 813-834	18
1175	The numerical modelling of ceramics subject to impact using adaptive discrete element techniques. **2003**, 20, 82-106	5
1174	An Adaptive Quadrilateral Refinement Process Based Upon a Posteriori Error Estimation of Natural Frequencies in Shells. **2003**,	0
1173	Estimating Grid-Induced Errors by a Discrete-Error Transport Equation. **2003**,	
1172	Discretization Error Estimates Using Exact Solutions to Nearby Problems. **2003**,	12
1171	Computational Modeling of Concrete Structures. **2003**, 541-606	4
1170	Adaptive mesh generation within nonlinear iterative calculations for analyses of electric machines. **2003**, 39, 1654-1657	8
1169	H-adaptive finite element modelling system.	
1168	Reliable finite element analysis of ship structural components. **2003**, 217, 159-171	
1167	Effective Adaptation of Hexahedral Mesh using Local Refinement and Error Estimation. **2003**, 243-244, 27-32	2
1166	3D Adaptive Multi Fracture Analysis of Composites. **2003**, 440-441, 145-152	4

1165	A posteriori error estimation of goal-oriented quantities by the superconvergence patch recovery. **2003**, 11,	
1164	On two-sided error estimates for approximate solutions of problems in the linear theory of elasticity. **2003**, 18,	8
1163	Error Estimation and Adaptive Discretization Methods in Computational Fluid Dynamics. **2003**,	9
1162	Numerical studies of wave propagation in polycrystalline shape memory alloy rods. **2003**, 5053, 294	1
1161	Zienkiewicz☒hu error estimators on anisotropic tetrahedral and triangular finite element meshes. **2003**, 37, 1013-1043	24
1160	Adaptive finite element meshing for eddy current analysis of moving conductor. **2004**, 40, 993-996	14
1159	A POSTERIORI ERROR ESTIMATION AND H-ADAPTIVE REFINEMENT TECHNIQUES FOR TRANSIENT DYNAMIC ANALYSIS OF STIFFENED PLATE/SHELL PANELS. **2004**, 04, 259-277	1
1158	Bunsen flame simulation by finite elements on adaptively refined, unstructured triangulations. **2004**, 8, 65-84	11
1157	Nonconforming Variable-Node Axisymmetric Solid Element. **2004**, 130, 578-588	6
1156	Implementation Aspects of a Recovery-Based Error Estimator in Finite Element Analysis. **2004**, 722-729	
1155	Adaptive Resolution of Localized Damage in Quasi-brittle Materials. **2004**, 130, 720-732	45
1154	FE model verification for structural dynamics with vector projection. **2004**, 18, 739-757	3
1153	Numerical simulations of the growth and deflection of a stress-corrosion notch on the interface between two reactive solids. **2004**, 127, 1-20	2
1152	Automatic generation of accurate subject-specific bone finite element models to be used in clinical studies. **2004**, 37, 1597-605	126
1151	r-Adaptive mesh generation for shell finite element analysis. **2004**, 199, 291-316	11
1150	An adaptive mesh refinement of quadrilateral finite element meshes based upon a posteriori error estimation of quantities of interest: linear static response. **2004**, 20, 31-37	3
1149	An adaptive mesh refinement of quadrilateral finite element meshes based upon an a posteriori error estimation of quantities of interest: modal response. **2004**, 20, 38-44	2
1148	Efficient dynamic analysis of cable-stayed bridges under vehicular movement using space and time adaptivity. **2004**, 40, 407-424	12

1147	Simulating a chain of manufacturing processes using a geometry-based finite element code with adaptive meshing. **2004**, 40, 511-528		10
1146	A posteriori error estimation based on variation of mapping function. **2004**, 40, 711-735		
1145	Finite element analysis of filling stage in die-casting process using marker surface method and adaptive grid refinement technique. **2004**, 44, 209-230		3
1144	A stabilized finite element procedure for turbulent fluid structure interaction using adaptive time space refinement. **2004**, 44, 673-693		28
1143	Godunov-type adaptive grid model of wave current interaction at cuspate beaches. **2004**, 46, 569-606		8
1142	Analysis of transfer procedures in elastoplasticity based on the error in the constitutive equations: Theory and numerical illustration. *International Journal for Numerical Methods in Engineering*, **2004**, 60, 1595-1631	2.4	14
1141	On application of two superconvergent recovery procedures to plate problems. *International Journal for Numerical Methods in Engineering*, **2004**, 61, 1644-1673	2.4	10
1140	Validation of the a posteriori error estimator based on polynomial preserving recovery for linear elements. *International Journal for Numerical Methods in Engineering*, **2004**, 61, 1860-1893	2.4	7
1139	Application of h-adaptive FEM and Zarka's approach to analysis of shakedown problems. *International Journal for Numerical Methods in Engineering*, **2004**, 61, 2139-2158	2.4	9
1138	An improvement of the EDI method in linear elastic fracture mechanics by means of an a posteriori error estimator in G. *International Journal for Numerical Methods in Engineering*, **2004**, 59, 533-558	2.4	9
1137	Adaptive methods for thermomechanical coupled contact problems. *International Journal for Numerical Methods in Engineering*, **2004**, 59, 871-894	2.4	14
1136	Application of piece-wise linear weight functions for 2D 8-node quadrilateral element in contact problems. *International Journal for Numerical Methods in Engineering*, **2004**, 61, 159-188	2.4	1
1135	A numerical methodology to assess the quality of the design velocity field computation methods in shape sensitivity analysis. *International Journal for Numerical Methods in Engineering*, **2004**, 59, 1725-1747	2.4	15
1134	Adaptive finite element analysis and modelling of solids and structures. Findings, problems and trends. *International Journal for Numerical Methods in Engineering*, **2004**, 60, 103-138	2.4	30
1133	Adaptive error control in multi-physical thin-structure MEMS FE-simulation. **2004**, 196, 145-172		6
1132	Optimal shape design in biomimetics based on homogenization and adaptivity. **2004**, 65, 257-272		14
1131	Alternative mesh optimality criteria for h-adaptive finite element method. **2004**, 40, 1195-1215		9
1130	Modeling thin films applying an extended continuum theory based on a scalar-valued order parameter.: Part I: isothermal case. **2004**, 41, 5071-5085		22

1111	A POSTERIORI ERROR ESTIMATE AND H-ADAPTIVE FE ANALYSIS OF LIQUEFACTION WITH LARGE DEFORMATION. **2004**, 2004, 1-15	
1110	Computational Modeling of Forming Processes. **2004**,	
1109	Bibliography. **2004**, 33, 281-299	
1108	Finite Element Analysis of the Onset of Necking and the Post-Necking Behaviour during Uniaxial Tensile Testing. **2005**, 46, 2159-2163	17
1107	.	1
1106	Mesh-free adjoint methods for nonlinear filters. **2005**,	2
1105	Efficient FEM calculation with predefined precision through automatic grid refinement. **2005**, 41, 1043-1055	14
1104	Adaptive mesh refinement for the control of cost and quality in finite element analysis. **2005**, 41, 1413-1440	18
1103	H-adaptivity applied to liquefiable soil in nonlinear analysis of soil–pile interaction. **2005**, 25, 689-699	7
1102	Local and global shape functions in a boundary element formulation for the calculation of traffic induced vibrations. **2005**, 25, 839-856	16
1101	A posteriori error estimate for stress analysis of homogeneous and heterogeneous materials: An engineering approach. **2005**, 42, 171-188	1
1100	Electro-mechanical crack systems: bound theorems, dual finite elements and error estimation. **2005**, 42, 5413-5425	
1099	Performance analysis tools applied to a finite element adaptive mesh free boundary seepage parallel algorithm. **2005**, 194, 297-312	2
1098	Adaptivity in linear elastic fracture mechanics based on shape sensitivity analysis. **2005**, 194, 3582-3606	3
1097	A finite element formulation for transient incompressible viscous flows stabilized by local time-steps. **2005**, 194, 2095-2108	8
1096	Adaptive finite element analysis of multi-phase problems in geotechnics. **2005**, 32, 458-481	11
1095	A posteriori error estimation techniques in practical finite element analysis. **2005**, 83, 235-265	153
1094	On Zienkiewicz–Zhu error estimators for Maxwell's equations. **2005**, 340, 697-702	21

1093	A continuum mechanics-based framework for boundary and finite element mesh optimization in two dimensions for application in excavation analysis. **2005**, 29, 369-393		5
1092	An a posteriori error estimator for the p- and hp-versions of the finite element method. *International Journal for Numerical Methods in Engineering*, **2005**, 62, 1-18	2.4	6
1091	Advances in tetrahedral mesh generation for modelling of three-dimensional regions with complex, curvilinear crack shapes. *International Journal for Numerical Methods in Engineering*, **2005**, 63, 256-275	2.4	8
1090	Adaptive superposition of finite element meshes in elastodynamic problems. *International Journal for Numerical Methods in Engineering*, **2005**, 63, 1604-1635	2.4	17
1089	Automatic energy conserving space-time refinement for linear dynamic structural problems. *International Journal for Numerical Methods in Engineering*, **2005**, 64, 304-321	2.4	24
1088	Generalization of robustness test procedure for error estimators. Part I: formulation for patches near kinked boundaries. *International Journal for Numerical Methods in Engineering*, **2005**, 64, 427-460	2.4	17
1087	Generalization of robustness test procedure for error estimators. Part II: test results for error estimators using SPR and REP. *International Journal for Numerical Methods in Engineering*, **2005**, 64, 461-502	2.4	14
1086	Finite-element/level-set/operator-splitting (FELSOS) approach for computing two-fluid unsteady flows with free moving interfaces. **2005**, 48, 231-269		41
1085	Interaction of faults under slip-dependent friction. Non-linear eigenvalue analysis. **2005**, 28, 77-100		18
1084	A universal algorithm for an improved finite element mesh generation Mesh quality assessment in comparison to former automated mesh-generators and an analytic model. **2005**, 27, 383-94		5
1083	Error estimation for the finite element evaluation of and in mixed-mode linear elastic fracture mechanics. **2005**, 41, 1079-1104		16
1082	A posteriori error estimation for acoustic wave propagation problems. **2005**, 12, 343-389		22
1081	A Posteriori Error Estimates for Approximate Solutions of Linear Parabolic Problems. **2005**, 41, 970-983		10
1080	Studies of Adaptive Finite Element Method for Component Crashworthiness Analysis. **2005**,		
1079	Super-convergent patch recovery. **2005**, 146-177		
1078	MULTISCALE MODELING OF SOLIDIFICATION: PHASE-FIELD METHODS TO ADAPTIVE MESH REFINEMENT. **2005**, 19, 4525-4565		70
1077	Efficient Numerical Methods and Information-Processing Techniques for Modeling Hydro- and Environmental Systems. **2005**,		
1076	Explicit and Averaging A Posteriori Error Estimates for Adaptive Finite Volume Methods. **2005**, 42, 2496-2521		37

1075	Adaptive space[time finite element methods for the wave equation on unbounded domains. **2005**, 194, 1947-2000	13
1074	Extracting clinically relevant data from finite element simulations. **2005**, 20, 451-4	222
1073	Compressible high-speed gas flow. **2005**, 197-247	
1072	Errors, recovery processes and error estimates. **2005**, 456-499	
1071	Adaptive finite element refinement. **2005**, 500-524	4
1070	Reliable Computation of Local Quantities of Interest in Composite Laminated Plates. **2005**,	2
1069	Estimating Grid-Induced Errors in Navier-Stokes Solutions by Euler Discrete-Error-Transport Equations. **2005**,	5
1068	Error estimates for elliptic problems. **2005**, 127-145	
1067	On the Use of Slope Limiters for the Design of Recovery Based Error Indicators. **2006**, 233-240	
1066	Modeling the Residual in Error-Transport Equations for Estimating Grid-Induced Errors in CFD Solutions. **2006**,	2
1065	A Performance Study on Configurational Force and Spring-Analogy Based Mesh Optimization Schemes. **2006**, 7, 241-262	7
1064	.	5
1063	Averaging Techniques for the Effective Numerical Solution of Symm's Integral Equation of the First Kind. **2006**, 27, 1226-1260	28
1062	3-D Mesh Adaptation on Multiple Weak Discontinuities and Boundary Layers. **2006**, 28, 1379-1397	5
1061	Functional Approach to Locally Based A Posteriori Error Estimates for Elliptic and Parabolic Problems. **2006**, 135-150	
1060	Robust a posteriori error estimates for finite element discretizations of the heat equation with discontinuous coefficients. **2006**, 40, 991-1021	13
1059	Numerical Methods in Simulation of Industrial Processes. **2006**, 764-795	
1058	Local estimation of the error in the von Mises' stress and L2-norm of the stress for linear elasticity problems. **2006**, 23, 876-897	6

1039	New a posteriori error estimator and adaptive mesh refinement strategy for 2-D crack problems. **2006**, 73, 802-819		5
1038	Partitioning methods for reaction diffusion problems. **2006**, 56, 981-1000		7
1037	Local a posteriori estimates for the Stokes problem. **2006**, 136, 3786-3793		
1036	On finite element modelling of surface tension: Variational formulation and applications Part II: Dynamic problems. **2006**, 38, 251-263		34
1035	Efficient solvers for nonlinear time-periodic eddy current problems. **2006**, 9, 197-207		29
1034	libMesh : a C++ library for parallel adaptive mesh refinement/coarsening simulations. **2006**, 22, 237-254		455
1033	A posteriori error estimators, gradient recovery by averaging, and superconvergence. **2006**, 103, 267-298		18
1032	Accurate computation of critical local quantities in composite laminated plates under transverse loading. **2006**, 84, 657-675		11
1031	A simple error indicator for meshfree methods based on natural neighbors. **2006**, 84, 1301-1312		13
1030	Development of a parallel Poisson's equation solver with adaptive mesh refinement and its application in field emission prediction. **2006**, 174, 948-960		8
1029	Adaptive refinement of all-hexahedral elements for three-dimensional metal forming analysis. **2006**, 43, 22-35		8
1028	Contribution of computational mechanics in numerical simulation of machining and blanking: State-of-the-Art. **2006**, 13, 45-90		11
1027	An error evaluation scheme based on rotation of magnetic field in adaptive finite element analysis. **2006**, 42, 567-570		8
1026	Predictive modelling of structure evolution in sandbox experiments. **2006**, 28, 729-744		73
1025	A non-iterative algorithm based on Richardson's extrapolation. Application to groundwater flow modelling. *International Journal for Numerical Methods in Engineering*, **2006**, 65, 1088-1112	2.4	7
1024	On inter-element forces in the FEM-displacement formulation, and implications for stress recovery. *International Journal for Numerical Methods in Engineering*, **2006**, 66, 502-528	2.4	19
1023	Skeletal reduction of boundary value problems. *International Journal for Numerical Methods in Engineering*, **2006**, 66, 722-739	2.4	3
1022	A posteriori error estimation based on the superconvergent Recovery by Compatibility in Patches. *International Journal for Numerical Methods in Engineering*, **2006**, 67, 108-131	2.4	23

1021	Localized remeshing techniques for three-dimensional metal forming simulations with linear tetrahedral elements. *International Journal for Numerical Methods in Engineering*, **2006**, 67, 672-696	2.4	16
1020	Error estimation of stress intensity factors for mixed-mode cracks. *International Journal for Numerical Methods in Engineering*, **2006**, 68, 299-316	2.4	16
1019	Adaptive computational methods for variational inequalities based on mixed formulations. *International Journal for Numerical Methods in Engineering*, **2006**, 68, 1180-1208	2.4	3
1018	Anisotropic a posteriori error estimate for an optimal control problem governed by the heat equation. **2006**, 22, 1314-1336		5
1017	Adaptive mesh refinement for high-resolution finite element schemes. **2006**, 52, 545-569		12
1016	Finite element and finite volume simulation and error assessment of polymer melt flow in closed channels. **2006**, 22, 1077-1085		4
1015	Using fuzzy controllers as adaptive procedures in the finite element method. **2006**, 24, 449-465		2
1014	Adaptive Finite Element Simulations for Macroscopic and Mesoscopic Models of Steel. **2006**, 37, 142-146		2
1013	An HP-Adaptive Finite Element Model for Convective Heat Transfer in an Attic Space. **2006**, 551		
1012	Cross Relations Between the Planar Elastic Moduli of Perforated Structures. **2006**, 73, 163-166		1
1011	Adaptive FEM Analysis Technique Using Multigrid Method for Unstructured Hexahedral Meshes. **2006**, 306-308, 565-570		2
1010	Mesh Optimization Strategies for Solution of Engineering Problems. **2006**, 113, 157-162		
1009	Computational Contact Mechanics. **2006**,		557
1008	Un estimateur d'erreur en relation de comportement pour les problèmes d'impact. **2006**, 15, 699-727		1
1007	Influence of the finite element discretization error over the convergence of structural shape optimization algorithms. **2007**,		
1006	Application of an hp-Adaptive FEM for Solving Thermal Flow Problems. **2007**, 21, 190-198		7
1005	3D FEM Simulation of the Flow Forming Process Using Lagrangian and ALE Methods. **2007**,		1
1004	Simulation of anisotropic dilation behaviour of layered and banded steel samples during phase changes. **2007**, 87, 871-881		1

1003	An a posteriori error estimator for the Lame equation based on equilibrated fluxes. **2007**, 28, 331-353	29
1002	References. **2007**, 198-222	
1001	Comparison of hp-adaptive methods in finite element electromagnetic wave propagation. **2007**, 26, 431-446	4
1000	Modeling of the integrated magnetic focusing and gated field-emission device with single carbon nanotube. **2007**, 25, 74	3
999	COMPUTATIONAL ISSUES IN THE SIMULATION OF BLAST AND IMPACT PROBLEMS: AN INDUSTRIAL PERSPECTIVE. **2007**, 3-35	3
998	Nanomanipulation measurement and PIC simulation of field-emission properties from a single crystallized silicon nano-emitter. **2007**, 18, 225503	5
997	Coupled atomistic/continuum modelling of plasticity in materials. **2007**, 189-219	
996	Error control schemes for adaptive time integration of magnetodynamic systems with variable spatial mesh resolution. **2007**, 26, 758-772	1
995	Theoretical Analysis of Geo-electromagnetic Modeling on Coulomb Gauged Potentials by Adaptive Finite Element Method. **2007**, 50, 1349-1364	1
994	Averaging Techniques for the A Posteriori BEM Error Control for a Hypersingular Integral Equation in Two Dimensions. **2007**, 29, 782-810	16
993	Two-Sided A Posteriori Error Estimates for Mixed Formulations of Elliptic Problems. **2007**, 45, 928-945	18
992	A Posteriori Method for Estimating and Correcting Grid-Induced Errors in CFD Solutions Part 1: Theory and Method. **2007**,	5
991	Solution-Verified Reliability Analysis and Design of Compliant Micro-Electro-Mechanical Systems. **2007**,	2
990	Application of h-, p- and hp-adaptation for Convective Heat Transfer Problems. **2007**,	
989	hp-Adaptive Finite Element Simulations of Viscous Flow Including Convective Heat Transfer. **2007**, 51, 491-513	4
988	Investigations into the applicability of adaptive finite element methods to two-dimensional infinite Prandtl number thermal and thermochemical convection. **2007**, 8, n/a-n/a	27
987	An Adaptive Mesh Generation With Parameterized Learning. **2007**, 127, 293-299	
986	Adaptive finite element methodology for tumour angiogenesis modelling. *International Journal for Numerical Methods in Engineering*, **2007**, 69, 1212-1238	2.4	13

985	Equilibrated patch recovery error estimates: simple and accurate upper bounds of the error. *International Journal for Numerical Methods in Engineering*, **2007**, 69, 2075-2098	2.4	33
984	Improvement of the superconvergent patch recovery technique by the use of constraint equations: the SPR-C technique. *International Journal for Numerical Methods in Engineering*, **2007**, 70, 705-727	2.4	50
983	A dedicated Fourier analysis for the simulation of composite pipes with defects. *International Journal for Numerical Methods in Engineering*, **2007**, 71, 81-101	2.4	3
982	Computation of accurate nodal derivatives of finite element solutions: the finite node displacement method. *International Journal for Numerical Methods in Engineering*, **2007**, 71, 1181-1207	2.4	5
981	Numerical comparison of some Hessian recovery techniques. *International Journal for Numerical Methods in Engineering*, **2007**, 72, 987-1007	2.4	47
980	Modelling of paste flows subject to liquid phase migration. *International Journal for Numerical Methods in Engineering*, **2007**, 72, 1157-1180	2.4	22
979	A simple error estimator for extended finite elements. **2007**, 24, 961-971		71
978	Multiscale algorithm with patches of finite elements. **2007**, 24, 477-491		4
977	Adaptive FAS-multigrid method for nonlinear elliptic equations on unstructured grids. **2007**, 24, 1979-2002		1
976	Adaptive domain decomposition for the bound method: Application to the incompressible Navier Stokes and Energy equations in three space dimensions. **2007**, 196, 1484-1497		
975	The ultraconvergence of derivative for bicubic finite element. **2007**, 196, 3771-3778		4
974	Error-controlled adaptive goal-oriented modeling and finite element approximations in elasticity. **2007**, 196, 3598-3613		32
973	Adaptive FEM analysis of selected elastic visco-plastic problems. **2007**, 196, 3859-3870		9
972	Derivative recovery and a posteriori error estimate for extended finite elements. **2007**, 196, 3381-3399		107
971	Adaptive finite-volume solution of complex turbulent flows. **2007**, 36, 1347-1363		11
970	Strength and deformation of arbitrary beam sections using adaptive FEM. **2007**, 85, 15-29		5
969	Three-dimensional simulation studies on electrostatic predictions for carbon nanotube field effect transistors. **2007**, 177, 683-688		4
968	Remarks on a posteriori error estimation for finite element solutions. **2007**, 199, 329-336		10

967	A spatially adaptive grid-refinement approach for the finite element solution of the even-parity Boltzmann transport equation. **2007**, 34, 600-613	16
966	A Finite Element approach with patch projection for strain gradient plasticity formulations. **2007**, 23, 690-710	39
965	Elasto-plasticity model in structural optimization of composite materials with periodic microstructures. **2007**, 74, 468-480	2
964	Predicting the subject-specific primary stability of cementless implants during pre-operative planning: preliminary validation of subject-specific finite-element models. **2007**, 40, 2552-8	49
963	High-Speed Prediction of Strict Numerical Solutions Using Multiadaptive-Meshing. **2007**, 43, 1477-1480	
962	Material forces for crack analysis of functionally graded materials in adaptively refined FE-meshes. **2007**, 147, 269-283	6
961	A posteriori error estimates for viscous flow problems with rotation. **2007**, 142, 1749-1762	3
960	Functional approach to a posteriori error estimation for elliptic optimal control problems with distributed control. **2007**, 144, 4535-4547	10
959	Two-sided a posteriori error estimates for linear elliptic problems with mixed boundary conditions. **2007**, 52, 235-249	16
958	A Comparison of Mapping Algorithms for Hierarchical Adaptive FEM in Finite Elasto-Plasticity. **2007**, 39, 521-536	13
957	Goal-Oriented Error Estimates Based on Different FE-Spaces for the Primal and the Dual Problem with Applications to Fracture Mechanics. **2007**, 39, 787-797	14
956	On the duality of finite element discretization error control in computational Newtonian and Eshelbian mechanics. **2007**, 39, 609-630	6
955	An automatic adaptive refinement procedure for the reproducing kernel particle method. Part II: Adaptive refinement. **2007**, 40, 415-427	12
954	An automatic adaptive refinement procedure for the reproducing kernel particle method. Part I: Stress recovery and a posteriori error estimation. **2007**, 40, 399-413	9
953	A combined r-h adaptive strategy based on material forces and error assessment for plane problems and bimaterial interfaces. **2007**, 41, 49-72	15
952	Modelling and Simulation of Machining Processes. **2007**, 14, 173-204	70
951	Controlled cost of adaptive mesh refinement in practical 3D finite element analysis. **2007**, 38, 846-859	5
950	Application of an h-adaptive finite element model for wind energy assessment in Nevada. **2007**, 32, 1705-1722	16

949	Meshless methods: A review and computer implementation aspects. **2008**, 79, 763-813	778
948	An integration of a low cost adaptive remeshing strategy in the solution of structural shape optimization problems using evolutionary methods. **2008**, 86, 1563-1578	10
947	A self-adapting model for assessing hazardous environmental releases. **2008**, 44, 387-397	2
946	Parallel adaptive simulations of dynamic fracture events. **2008**, 24, 341-358	6
945	Geometry-adaptive generation algorithm and boundary match method for initial hexahedral element mesh. **2008**, 24, 321-339	7
944	Adaptive element free Galerkin method applied to analysis of earthquake induced liquefaction. **2008**, 7, 217-224	10
943	A generic grid interface for parallel and adaptive scientific computing. Part II: implementation and tests in DUNE. **2008**, 82, 121-138	279
942	Three-dimensional simulation of anisotropic cell-driven collagen gel compaction. **2008**, 7, 53-62	24
941	Error-controlled adaptive mixed finite element methods for second-order elliptic equations. **2008**, 42, 447-456	3
940	ANALYSIS OF FAILURE MECHANISMS IN THE INTERCONNECT LINES OF MICROELECTRONIC CIRCUITS. **2008**, 21, 611-630	22
939	Adaptive finite elements methods for virtual engineering design. **2008**, 8, 10261-10262	1
938	Features of an adaptive remeshing strategy in the context of deformation localization and high speed cutting. **2008**, 8, 10287-10288	
937	Thermomechanical modeling and simulation of aluminum alloys during extrusion process. **2008**, 8, 10517-10518	

936	A p-hierarchical adaptive procedure for the scaled boundary finite element method. *International Journal for Numerical Methods in Engineering*, **2008**, 73, 47-70	2.4	12
935	Adaptive mesh technique for thermal-metallurgical numerical simulation of arc welding processes. *International Journal for Numerical Methods in Engineering*, **2008**, 73, 624-641	2.4	18
934	A recovery-type error estimator for the extended finite element method based on singular+smooth stress field splitting. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 545-571	2.4	72
933	Adaptive tetrahedral mesh generation by constrained Delaunay refinement. *International Journal for Numerical Methods in Engineering*, **2008**, 75, 856-880	2.4	66
932	Nodal velocity derivatives of finite element solutions: The FiND method for incompressible Navier-Stokes equations. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 455-481	2.4	

931	A posteriori error estimation for extended finite elements by an extended global recovery. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 1123-1138	2.4 101
930	Polynomial preserving recovery for meshes from Delaunay triangulation or with high aspect ratio. **2008**, 24, 960-971	11
929	Effective properties and size effects in filled polymers. **2008**, 31, 210-224	4
928	Adaptive finite element meshing at each iterative calculation for electromagnetic field analysis of rotating machines. **2008**, 164, 78-91	8
927	An a posteriori error indicator for Coulomb frictional contact. **2008**, 35, 562-575	3
926	An anisotropic unstructured triangular adaptive mesh algorithm based on error and error gradient information. **2008**, 78, 645-652	5
925	Stress-based performance evaluation of osseointegrated dental implants by finite-element simulation. **2008**, 16, 971-987	44
924	Anisotropic error control for environmental applications. **2008**, 58, 1320-1339	17
923	Multiscale simulation of onset plasticity during nanoindentation of Al (001) surface. **2008**, 56, 4358-4368	57
922	A residual based error estimator using radial basis functions. **2008**, 44, 631-645	21
921	Framework for controlled cost and quality of assumptions in finite element analysis. **2008**, 45, 25-36	4
920	Adaptive numerical simulation of intracellular calcium dynamics using domain decomposition methods. **2008**, 58, 1658-1674	7
919	Modeling of crack propagation via an automatic adaptive mesh refinement based on modified superconvergent patch recovery technique. **2008**, 75, 2921-2945	61
918	A CFD approach to the atmospheric dispersion of radionuclides in the vicinity of NPPs. **2008**, 238, 250-273	18
917	Sensitivity of the primary stability of a cementless hip stem to its position and orientation. **2008**, 32, 555-60	14
916	An Adaptive Finite Element Method for Minor Shape Modification in Optimization Algorithms. **2008**, 44, 1202-1205	19
915	Nonlinear Finite Element Methods. **2008**,	17
914	Modellistica numerica per problemi differenziali. **2008**,	3

913	Automatic adaptive FE analysis of thin-walled structures using 3D solid elements. *International Journal for Numerical Methods in Engineering*, **2008**, 76, 183-229	2.4	3
912	Implementing a Universal Quantum Cloning Machine via Adiabatic Evolution in Ion-Trap System. **2008**, 49, 80-82		
911	Numerical analysis of two-dimensional motion of a freely falling circular cylinder in an infinite fluid. **2008**, 604, 33-53		27
910	Failure analysis: enamel fracture after debonding orthodontic brackets. **2008**, 78, 1071-7		36
909	Knowledge base for controlled cost and quality of finite element modelling. **2008**, 1, 166		
908	An hp-adaptive finite element model for heat transfer within partitioned enclosures. **2008**, 18, 1000-1014		1
907	Radionuclide Transport in a Water-Saturated Planar Fracture with Bentonite Extrusion. **2008**, 164, 442-464		3
906	Control of the finite element discretization error during the convergence of structural shape optimization algorithms. **2009**, 3, 363-369		1
905	Guaranteed and robusta posteriorierror estimates for singularly perturbed reactiondiffusion problems. **2009**, 43, 867-888		29
904	A posteriori error estimate improvement in mesh adaptation for computer fluid dynamics applications. **2009**, 223, 1117-1126		
903	An h-Adaptive Finite-Element Technique for Constructing 3D Wind Fields. **2009**, 48, 580-599		5
902	Enhancing eigenvalue approximation by gradient recovery on adaptive meshes. **2009**, 29, 1008-1022		19
901	Adaptive finite element method for shape modification in optimization of electric machines. **2009**, 168, 21-28		
900	On the use of anisotropic a posteriori error estimators for the adaptative solution of 3D inviscid compressible flows. **2009**, 59, 47-74		19
899	Adaptive finite elements with large aspect ratio for mass transport in electroosmosis and pressure-driven microflows. **2009**, 63, n/a-n/a		
898	Convergence, adaptive refinement, and scaling in 1D peridynamics. *International Journal for Numerical Methods in Engineering*, **2009**, 77, 852-877	2.4	306
897	Error estimation and adaptivity for discontinuous failure. *International Journal for Numerical Methods in Engineering*, **2009**, 78, 528-563	2.4	26
896	A constitutive relation error estimator based on traction-free recovery of the equilibrated stress. *International Journal for Numerical Methods in Engineering*, **2009**, 78, 460-482	2.4	21

895	Two- and three-dimensional transition element families for adaptive refinement analysis of elasticity problems. *International Journal for Numerical Methods in Engineering*, **2009**, 78, 587-630	2.4	12
894	Functional a posteriori error estimates for discontinuous Galerkin approximations of elliptic problems. **2009**, 25, 952-971		21
893	p-Version error estimation for linear elasticity. **2009**, 43, 603-615		4
892	Strict error bounds for linear solid mechanics problems using a subdomain-based flux-free method. **2009**, 44, 533-547		31
891	Sharp upper global a posteriori error estimates for nonlinear elliptic variational problems. **2009**, 54, 297-336		4
890	On the accuracy of nodal stress computation in plane elasticity using finite volumes and finite elements. **2009**, 87, 1044-1057		23
889	Precursor simulations in spreading using a multi-mesh adaptive finite element method. **2009**, 228, 1380-1390		12
888	Modeling of cohesive crack growth using an adaptive mesh refinement via the modified-SPR technique. **2009**, 159, 21-41		27
887	Computation of Dendritic Growth with Level Set Model Using a Multi-Mesh Adaptive Finite Element Method. **2009**, 39, 441-453		7
886	3D adaptive finite element modeling of non-planar curved crack growth using the weighted superconvergent patch recovery method. **2009**, 76, 1703-1728		33
885	Strict and practical bounds through a non-intrusive and goal-oriented error estimation method for linear viscoelasticity problems. **2009**, 45, 251-262		16
884	Adaptive nearest-nodes finite element method guided by gradient of linear strain energy density. **2009**, 45, 925-933		4
883	Maldistribution of fluids in extrudates. **2009**, 29, 937-941		7
882	Verified predictions of shape sensitivities in wall-bounded turbulent flows by an adaptive finite-element method. **2009**, 228, 4510-4531		6
881	Adaptive anisotropic meshing for steady convection-dominated problems. **2009**, 198, 2964-2981		15
880	Goal-oriented r-adaptivity based on variational arguments in the physical and material spaces. **2009**, 198, 3335-3351		10
879	-parameter: A local truncation error based adaptive framework for finite volume compressible flow solvers. **2009**, 38, 1799-1822		14
878	A posteriori evaluation of simplification details for finite element model preparation. **2009**, 87, 73-80		14

| 877 | Strict bounds for computed stress intensity factors. **2009**, 87, 1015-1021 | 14 |

| 876 | An improved adaptive formulation for the computation of limit analysis problems of thin axisymmetrical shells. **2009**, 87, 1602-1610 | 4 |

| 875 | A posteriori error analysis using the constitutive law for the CrouzeixRaviart element. **2009**, 22, 1309-1314 | 6 |

| 874 | Adaptive finite element mesh triangulation using self-organizing neural networks. **2009**, 40, 1097-1103 | 4 |

| 873 | Reuse, Recycle, Reduce (3R) Strategies for the calculation of transient magnetic fields. **2009**, 59, 830-844 | 3 |

| 872 | An adaptive algorithm for the CrankNicolson scheme applied to a time-dependent convectionDiffusion problem. **2009**, 233, 1139-1154 | 12 |

| 871 | Modeling buckling distortion of DP600 overlap joints due to gas metal arc welding and the influence of the mesh density. **2009**, 46, 977-986 | 23 |

| 870 | Strategies for Driving Mesh Adaptation in CFD (Invited). **2009**, | 32 |

| 869 | Development and Evaluation of an a Posteriori Method for Estimating and Correcting Grid-Induced Errors in Solutions of the Navier-Stokes Equations. **2009**, | 16 |

| 868 | Error Estimates for Harmonic-Balance Solutions of Nonlinear Dynamical Systems. **2009**, | 5 |

| 867 | Analysis of the Non-linear Behavior of an Adhesive in Bonded Assemblies Under Shear Loadings. Proposal of an Improved TAST. **2009**, 23, 1333-1355 | 19 |

| 866 | A Local-in-Space-Timestep Approach to a Finite Element Discretization of the Heat Equation with a Posteriori Estimates. **2009**, 47, 3109-3138 | 8 |

| 865 | Recovery-Based Error Estimator for Interface Problems: Conforming Linear Elements. **2009**, 47, 2132-2156 | 53 |

| 864 | Residual Error Estimators for Coulomb Friction. **2009**, 47, 3550-3583 | 17 |

| 863 | An Anisotropic Error Estimator for the CrankNicolson Method: Application to a Parabolic Problem. **2009**, 31, 2757-2783 | 35 |

| 862 | A Three-Dimensional Numerical Model for Flow in a Lock Filling System. **2009**, | |

| 861 | Efficiency considerations in triangular adaptive mesh refinement. **2009**, 367, 4577-89 | 28 |

| 860 | Energy Based Adaptive Strategy for Plates and Laminates. **2009**, 10, 209-223 | 4 |

859   Multi-resolution simulation of double-diffusive convection in porous media. **2010**, 20, 37-65   8

858   Error Estimation and Quality Control. **2010**,   3

857   Unified primal formulation-based a priori and a posteriori error analysis of mixed finite element methods. **2010**, 79, 2001-2001   37

856   Application of View-Dependent Progressive Meshes to Adaptive Elasto-Plastic Analysis. **2010**, 76, 1162-1169

855   Development of an object-oriented finite element program with adaptive mesh refinement for multi-physics applications. **2010**, 41, 569-579   9

854   A posteriori error analysis of a domain decomposition algorithm for unilateral contact problem. **2010**, 88, 879-888   8

853   On efficient simulation of non-Newtonian flow in saturated porous media with a multigrid adaptive refinement solver. **2010**, 13, 1-16

852   On the development of adaptive random differential quadrature method with an error recovery technique and its application in the locally high gradient problems. **2010**, 45, 467-493   6

851   Mechanical and geometrical approaches applied to composite fabric forming. **2010**, 3, 1189-1204   18

850   Experimental Investigation and Finite Element Analysis of Fatigue Crack Growth in Pipes Containing a Circumferential Semi-elliptical Crack Subjected to Bending. **2010**, 50, 563-573   6

849   The Superconvergent Cluster Recovery Method. **2010**, 44, 301-322   24

848   Shape Optimization of Rotating Machines Using Time-Stepping Adaptive Finite Element Method. **2010**, 46, 3113-3116   18

847   A variationally consistent mesh adaptation method for triangular elements in explicit Lagrangian dynamics. *International Journal for Numerical Methods in Engineering*, **2010**, 82, 1073-1113   2.4   19

846   Dual adaptive finite element refinement for multiple local quantities in linear elastostatics. *International Journal for Numerical Methods in Engineering*, **2010**, 83, 347-365   2.4   7

845   On the control of the load increments for a proper description of multiple delamination in a domain decomposition framework. *International Journal for Numerical Methods in Engineering*, **2010**, 83, 1518-1540   2.4   17

844   An adjoint method for shape optimization in unsteady viscous flows. **2010**, 229, 1994-2008   39

843   Adaptive variational multiscale methods for incompressible flow based on two local Gauss integrations. **2010**, 229, 7030-7041   30

842   A review of some a posteriori error estimates for adaptive finite element methods. **2010**, 80, 1589-1600   14

805	Convergent Adaptive Finite Element Method Based on Centroidal Voronoi Tessellations and Superconvergence. **2011**, 10, 339-370	11
804	A new hip epiphyseal prosthesis: design revision driven by a validated numerical procedure. **2011**, 33, 1203-11	10
803	3D Metric-based anisotropic mesh adaptation for vortex capture. **2011**, 82, 163-180	4
802	A variational multiscale a posteriori error estimation method for mixed form of nearly incompressible elasticity. **2011**, 200, 3453-3481	28
801	Node moving adaptive refinement strategy for planar elasticity problems using discrete least squares meshless method. **2011**, 47, 1315-1325	19
800	A Mixed Finite Element Scheme for Optimal Control Problems with Pointwise State Constraints. **2011**, 46, 182-203	30
799	Guaranteed and Fully Robust a posteriori Error Estimates for Conforming Discretizations of Diffusion Problems with Discontinuous Coefficients. **2011**, 46, 397-438	44
798	Optimization under adaptive error control for finite element based simulations. **2011**, 47, 49-63	1
797	Goal-oriented h-adaptivity for the Helmholtz equation: error estimates, local indicators and refinement strategies. **2011**, 47, 681-699	1
796	Adaptive finite elements for a certain class of variational inequalities of second kind. **2011**, 48, 293-305	5
795	Decay rates of adaptive finite elements with Dffler marking. **2011**, 117, 679-716	28
794	A three-dimensional adaptive analysis using the meshfree node-based smoothed point interpolation method (NS-PIM). **2011**, 35, 1123-1135	28
793	Transition finite element families for adaptive analysis of axisymmetric elasticity problems. **2011**, 47, 360-372	8
792	An efficient adaptive analysis procedure for node-based smoothed point interpolation method (NS-PIM). **2011**, 217, 8387-8402	4
791	A meshless method based on boundary integral equations and radial basis functions for biharmonic-type problems. **2011**, 35, 737-751	18
790	Numerical and experimental studies of the riveting process. **2011**, 4, 45-54	16
789	An adaptive scaled boundary finite element method by subdividing subdomains for elastodynamic problems. **2011**, 54, 101-110	7
788	Adaptive Multi-scale Modeling Error Estimation for Composites. **2011**, 11, 525-526	

787	A comparison of methods to evaluate the behavior of finite element models with rough surfaces. **2011**, 33, 353-69		10
786	An anisotropic Zienkiewicz⊠hu-type error estimator for 3D applications. *International Journal for Numerical Methods in Engineering*, **2011**, 85, 671-692	2.4	28
785	Numerical simulation of multiple crack growth in brittle materials with adaptive remeshing. *International Journal for Numerical Methods in Engineering*, **2011**, 85, 1017-1048	2.4	44
784	Error bounds for the reliability index in finite element reliability analysis. *International Journal for Numerical Methods in Engineering*, **2011**, 87, 781-794	2.4	10
783	Flexible patch post-processing recovery strategies for solution enhancement and adaptive mesh refinement. *International Journal for Numerical Methods in Engineering*, **2011**, 87, 424-436	2.4	4
782	On the need for the use of error-controlled finite element analyses in structural shape optimization processes. *International Journal for Numerical Methods in Engineering*, **2011**, 87, 1105-1126	2.4	8
781	On the techniques for constructing admissible stress fields in model verification: Performances on engineering examples. *International Journal for Numerical Methods in Engineering*, **2011**, 88, 409-441	2.4	37
780	Parallel adaptive solution of coupled Rayleigh⊠nard⊠Marangoni problems with the Navier-slip. **2011**, 66, 428-451		3
779	Adaptive analysis using the node-based smoothed finite element method (NS-FEM). **2011**, 27, 198-218		57
778	Towards the development of an h⊠-refinement strategy based upon error estimate sensitivity. **2011**, 46, 277-281		1
777	Error estimation and mesh adaptation for Signorini⊠oulomb problems using E-FEM. **2011**, 89, 1148-1154		4
776	An h-hierarchical adaptive scaled boundary finite element method for elastodynamics. **2011**, 89, 1417-1429		24
775	Higher order optimization and adaptive numerical solution for optimal control of monodomain equations in cardiac electrophysiology. **2011**, 61, 53-65		13
774	Secondary chaotic terrain formation in the higher outflow channels of southern circum-Chryse, Mars. **2011**, 213, 150-194		15
773	An adaptive finite element approach for neutron transport equation. **2011**, 241, 2143-2154		17
772	DISPERSION ANALYSIS OF AN ENERGY-ORTHOGONAL THIN PLATE FINITE ELEMENT. **2011**, 08, 425-462		2
771	Blurred Constitutive Laws and Bipotential Convex Covers. **2011**, 16, 161-171		3
770	Understanding welding stress and distortion using computational welding mechanics. **2011**, 22-78		2

751	The mechanism of compressive unloading failure in single crystal quartz and other brittle solids. **2012**, 49, 3923-3934		5
750	Biomechanical robustness of a new proximal epiphyseal hip replacement to patient variability and surgical uncertainties: a FE study. **2012**, 34, 161-71		17
749	Objective quasicontinuum approach for rod problems. **2012**, 86,		9
748	An Efficient Adaptive Finite Element Analysis of Heterogeneous Materials Based on Centroid Material. **2012**,		
747	Identification of Thin Film Stress Based on Mindlin-Reissner Plate Finite Element Method. **2012**, 19, 503-512		2
746	A probabilistic crystal plasticity model for modeling grain shape effects based on slip geometry. **2012**, 60, 5233-5244		28
745	Adaptive mesh refinement and coarsening for cohesive zone modeling of dynamic fracture. *International Journal for Numerical Methods in Engineering*, **2012**, 92, 1-35	2.4	54
744	Experimental and modeling study on auto-ignition characteristics of methane/hydrogen blends under engine relevant pressure. **2012**, 37, 19168-19176		75
743	Computable bounds of functional outputs in linear visco-elastodynamics. **2012**, 245-246, 313-330		5
742	Strict upper bounds of the error in calculated outputs of interest for plasticity problems. **2012**, 245-246, 194-205		10
741	A generalized adaptive finite element analysis of laminated plates. **2012**, 112-113, 217-234		2
740	Determination of ultimate load and possible failure path for solid continuous media using adaptive refinement process. **2012**, 19, 1033-1043		
739	A spaceHime adaptation scheme for unsteady shallow water problems. **2012**, 82, 2929-2950		6
738	Earth System Modelling - Volume 2. **2012**,		5
737	On the role of enrichment and statical admissibility of recovered fields in a posteriori error estimation for enriched finite element methods. **2012**, 29, 814-841		23
736	An explicit residual-type error estimator for -quadrilateral extended finite element method in two-dimensional linear elastic fracture mechanics. *International Journal for Numerical Methods in Engineering*, **2012**, 90, 1118-1155	2.4	20
735	Patch-averaged assumed strain finite elements for stress analysis. *International Journal for Numerical Methods in Engineering*, **2012**, 90, 1618-1635	2.4	8
734	Enriched spaceHime finite element method: a new paradigm for multiscaling from elastodynamics to molecular dynamics. *International Journal for Numerical Methods in Engineering*, **2012**, 92, 115-140	2.4	13

733	Error estimation for crack simulations using the XFEM. *International Journal for Numerical Methods in Engineering*, **2012**, 91, 1459-1474	2.4	41
732	Reordering and incomplete preconditioning in serial and parallel adaptive mesh refinement and coarsening flow solutions. **2012**, 69, 802-823		11
731	Anisotropic mesh adaptation driven by a recovery-based error estimator for shallow water flow modeling. **2012**, 70, 269-299		14
730	Meshless Finite Difference Method with Higher Order Approximation Applications in Mechanics. **2012**, 19, 1-49		28
729	On calibration of orthotropic elastic-plastic constitutive models for paper foils by biaxial tests and inverse analyses. **2012**, 46, 111-128		27
728	On error estimator and adaptivity in the meshless Galerkin boundary node method. **2012**, 50, 49-63		
727	Object-oriented, parallel finite element framework with dynamic load balancing. **2012**, 47, 35-50		25
726	Adaptive space and time numerical simulation of reaction diffusion models for intracellular calcium dynamics. **2012**, 218, 10194-10210		7
725	A fully optimal anisotropic mesh adaptation method based on a hierarchical error estimator. **2012**, 209-212, 12-27		17
724	A comparative study of error assessment techniques for dynamic contact problems of geomechanics. **2012**, 40, 62-73		6
723	A node enrichment adaptive refinement in Discrete Least Squares Meshless method for solution of elasticity problems. **2012**, 36, 385-393		16
722	A posteriori error estimates and adaptive procedures for the meshless Galerkin boundary node method for 3D potential problems. **2012**, 36, 913-927		
721	An efficient adaptive analysis procedure using the edge-based smoothed point interpolation method (ES-PIM) for 2D and 3D problems. **2012**, 36, 1424-1443		15
720	Convergence analysis and detection of singularities within a boundary meshless method based on Taylor series. **2012**, 36, 1465-1472		11
719	An isogeometrical approach to error estimation and stress recovery. **2012**, 31, 101-109		7
718	Sobre la necesidad de controlar el error de discretización de elementos finitos en optimización de forma estructural con algoritmos evolutivos. **2012**, 28, 1-11		3
717	On (essentially) non-oscillatory discretizations of evolutionary convection diffusion equations. **2012**, 231, 1570-1586		40
716	Adaptive Mesh Generation Method Utilizing Magnetic Flux Lines in Two-Dimensional Finite Element Analysis. **2012**, 48, 527-530		14

715	On the use of sensitivity analysis in model reduction to predict flows for varying inflow conditions. **2012**, 68, 122-134		19
714	Robust residual- and recovery-based a posteriori error estimators for interface problems with flux jumps. **2012**, 28, 476-491		3
713	Polynomial preserving recovery for quadratic elements on anisotropic meshes. **2012**, 28, 966-983		2
712	Refined h-adaptive finite element procedure for large deformation geotechnical problems. **2012**, 49, 21-33		19
711	Three dimensional automatic refinement method for transient small strain elastoplastic finite element computations. **2012**, 49, 123-136		8
710	An explicit finite element approach with patch projection technique for strain gradient plasticity formulations. **2012**, 49, 171-183		10
709	Guaranteed error bounds on pointwise quantities of interest for transient viscodynamics problems. **2012**, 49, 291-307		23
708	An enhanced method with local energy minimization for the robust a posteriori construction of equilibrated stress fields in finite element analyses. **2012**, 49, 357-378		15
707	On a new edge-based gradient recovery technique. *International Journal for Numerical Methods in Engineering*, **2013**, 93, 52-65	2.4	3
706	Selected computational aspects of the meshless finite difference method. **2013**, 63, 107-126		16
705	On an inexact gradient method using Proper Orthogonal Decomposition for parabolic optimal control problems. **2013**, 55, 459-468		1
704	A Matlab Edge Element Code for Metamaterials. **2013**, 195-214		
703	Subdomain-based error techniques for generalized finite element approximations of problems with singular stress fields. **2013**, 52, 1395-1415		7
702	Goal-oriented explicit residual-type error estimates in XFEM. **2013**, 52, 361-376		16
701	Efficient recovery-based error estimation for the smoothed finite element method for smooth and singular linear elasticity. **2013**, 52, 37-52		18
700	A parameter-free smoothness indicator for high-resolution finite element schemes. **2013**, 11,		5
699	Perfectly Matched Layers. **2013**, 215-240		
698	An adaptive edge finite element method for electromagnetic cloaking simulation. **2013**, 249, 216-232		14

679	A multi-dimensional vector spherical harmonics discrete ordinate method for atmospheric radiative transfer. **2013**, 118, 121-131	16
678	Dynamic grid for mesh generation by the advancing front method. **2013**, 123, 15-27	14
677	Adaptive mesh refinement for conformal hexahedralmeshes. **2013**, 67, 1-12	11
676	Adaptive h-finite element modeling of wind flow around bridges. **2013**, 48, 569-577	8
675	Coupled hp-adaptivity for average current nodal expansion method in 2-D rectangular geometry. **2013**, 66, 25-34	5
674	Fast validation of stochastic structural models using a PGD reduction scheme. **2013**, 70-71, 44-56	5
673	On some hp-adaptive finite element method for natural vibrations. **2013**, 66, 2376-2399	5
672	Finite deformation elasto-plastic modelling using an adaptive meshless method. **2013**, 118, 39-52	34
671	An efficient linear elastic FEM solver using automatic local grid refinement and accuracy control. **2013**, 68, 28-38	6
670	Overview of adaptive finite element analysis in computational geodynamics. **2013**, 70, 1-20	30
669	All-hexahedral meshing and remeshing for multi-object manufacturing applications. **2013**, 45, 911-922	7
668	Mechanics of the burnishing process. **2013**, 37, 129-134	49
667	Adaptive Finite Element Refinement. **2013**, 545-572	1
666	High order preserving residual distribution schemes for the laminar and turbulent Navier Stokes on arbitrary grids. **2013**,	1
665	Adaptive Analysis Using S-PIMs. **2013**, 599-621	
664	Errors, Recovery Processes, and Error Estimates. **2013**, 493-543	4
663	A spatially adaptive grid refinement scheme for the finite element solution of a second order obstacle problem. **2013**, 23, 1001-1011	
662	Efficient Finite Element Methodology Based on Cartesian Grids: Application to Structural Shape Optimization. **2013**, 2013, 1-19	32

661	Flooding associated with predecessor rain events over the Midwest United States. **2013**, 8, 024007		13
660	Unified Matching Grids for Multidomain Multiphysics Simulations. **2013**, 35, A2781-A2806		2
659	Anisotropic Goal-Oriented Mesh Adaptivity for Elliptic Problems. **2013**, 35, A861-A885		20
658	Relaxed error control in shape optimization that utilizes remeshing. *International Journal for Numerical Methods in Engineering*, **2013**, 94, 273-289	2.4	4
657	Parallel Adaptive Mesh Refinement for Capturing Front Displacements: Application to Thermal EOR Processes. **2013**,		2
656	References. **2013**, 395-408		
655	Modal-based goal-oriented error assessment for timeline-dependent quantities in transient dynamics. *International Journal for Numerical Methods in Engineering*, **2013**, 95, 685-720	2.4	7
654	Comparative evaluation of osseointegrated dental implants based on platform-switching concept: influence of diameter, length, thread shape, and in-bone positioning depth on stress-based performance. **2013**, 2013, 250929		33
653	Case Based Reasoning Support for Adaptive Finite Element Analysis: Mesh Selection for an Integrated System. **2014**, 6,		4
652	Thermomechanical Modeling of Additive Manufacturing Large Parts. **2014**, 136,		169
651	Error Transport Equation Boundary Conditions for the Euler and Navier-Stokes Equations. **2014**,		0
650	Defect Correction and Error Transport Discretization Error Estimation for Applications in CFD. **2014**,		2
649	A posteriori error estimates of edge residual type of finite element method for nonmonotone quasi-linear elliptic problems. **2014**, 30, 813-837		2
648	A traction-based equilibrium finite element free from spurious kinematic modes for linear elasticity problems. *International Journal for Numerical Methods in Engineering*, **2014**, 99, 763-788	2.4	15
647	Compressible High-Speed Gas Flow. **2014**, 225-281		
646	References. **2014**, 481-486		
645	A Posteriori Error Analysis of Optimal Control Problems with Control Constraints. **2014**, 52, 1832-1861		48
644	Adaptive discrete-continuous modeling of evolving discontinuities. **2014**, 31, 1305-1320		1

| 643 | THE STABILITY OF TIDALLY DEFORMED NEUTRON STARS TO THREE- AND FOUR-MODE COUPLING. **2014**, 781, 23 | 36 |

| 642 | ZZ-Type a posteriori error estimators for adaptive boundary element methods on a curve. **2014**, 38, 49-60 | 7 |

| 641 | Sobre la utilización de códigos de elementos finitos basados en mallados cartesianos en optimización estructural. **2014**, 30, 155-165 | 1 |

| 640 | A local extrapolation method for finite elements. **2014**, 67, 1-9 | 9 |

| 639 | Parametric study of riveted joints. **2014**, 7, 65-79 | 12 |

| 638 | Goal-oriented space-time adaptivity for transient dynamics using a modal description of the adjoint solution. **2014**, 54, 331-352 | 8 |

| 637 | Error Assessment in Structural Transient Dynamics. **2014**, 21, 59-90 | 7 |

| 636 | Lossy Compression in Optimal Control of Cardiac Defibrillation. **2014**, 60, 35-59 | 7 |

| 635 | Metric tensors for the interpolation error and its gradient in Lp norm. **2014**, 256, 543-562 | 3 |

| 634 | Numerical Models for Differential Problems. **2014**, | 27 |

| 633 | The verification of the quantities of interest based on energy norm of solutions by node-based smoothed finite element method. **2014**, 71, 1-8 | |

| 632 | Accuracy Verification Methods. **2014**, | 34 |

| 631 | High-Order Preserving Residual Distribution Schemes for Advection-Diffusion Scalar Problems on Arbitrary Grids. **2014**, 36, A955-A983 | 19 |

| 630 | Adaptive tetrahedral mesh generation by constrained centroidal voronoi-delaunay tessellations for finite element methods. **2014**, 30, 1633-1653 | 3 |

| 629 | Improved Numerical Determination of the Effective Stress within the Framework of Local Approach Cleavage Models. **2014**, 3, 378-384 | |

| 628 | Mesh adaptivity driven by goal-oriented locally equilibrated superconvergent patch recovery. **2014**, 53, 957-976 | 32 |

| 627 | A strict error bound with separated contributions of the discretization and of the iterative solver in non-overlapping domain decomposition methods. **2014**, 270, 293-303 | 12 |

| 626 | An adaptive finite element procedure for fully-coupled point contact elastohydrodynamic lubrication problems. **2014**, 282, 1-21 | 6 |

625	Experimental and numerical studies on failure modes of riveted joints under tensile load. **2014**, 214, 2049-2058	14
624	Axioms of adaptivity. **2014**, 67, 1195-1253	119
623	An adaptive p-refinement strategy applied to nodal expansion method in 3D Cartesian geometry. **2014**, 63, 575-586	1
622	Domain decomposition based finite element verification in linear framework. **2014**, 88, 90-96	1
621	Magnetic force and torque on particles subject to a magnetic field. **2014**, 48, 23-37	9
620	Strategies involving the local defect correction multi-level refinement method for solving three-dimensional linear elastic problems. **2014**, 130, 73-90	10
619	Superconvergence patch recovery for the gradient of the tensor-product linear triangular prism element. **2014**, 2014,	24
618	Encyclopedia of Applied and Computational Mathematics. **2015**, 423-427	
617	Impact of space-time mesh adaptation on solute transport modeling in porous media. **2015**, 51, 1315-1332	13
616	Anisotropic Finite Element Mesh Adaptation via Higher Dimensional Embedding. **2015**, 124, 265-277	9
615	Numerical modeling of toxic nonaqueous phase liquid removal from contaminated groundwater systems: mesh effect and discretization error estimation. **2015**, 39, 571-593	24
614	Numerical Analysis of Stress Distribution in Concrete Around Corroding Rebar. **2015**, 108, 598-607	1
613	Strict upper and lower bounds of quantities for beams on elastic foundation by dual analysis. **2015**, 32, 1619-1642	1
612	A Robust Numerical Procedure for the Thermomechanical Flow Simulation of Friction Stir Welding Process Using an Adaptive Element-Free Galerkin Method. **2015**, 2015, 1-16	5
611	Optimal shape design of axisymmetric structures subject to asymmetric loading. **2015**, 293, 283-305	3
610	Finite Element Mesh Adaptation Strategy From Residual and Hierarchical Error Estimators in Eddy Current Problems. **2015**, 51, 1-4	3
609	New Challenges in Grid Generation and Adaptivity for Scientific Computing. **2015**,	2
608	An average failure index method for the tensile strength prediction of composite adhesive-bonded joints. **2015**, 30, 292-301	4

607	Separation force analysis and prediction based on cohesive element model for constrained-surface Stereolithography processes. **2015**, 69, 134-142		50
606	Fast r-adaptivity for multiple queries of heterogeneous stochastic material fields. **2015**, 56, 601-612		5
605	An a-posteriori error estimator for linear elastic fracture mechanics using the stable generalized/extended finite element method. **2015**, 56, 947-965		16
604	References. **2015**, 353-370		
603	Encyclopedia of Applied and Computational Mathematics. **2015**, 397-404		
602	Encyclopedia of Applied and Computational Mathematics. **2015**, 472-477		
601	A Line Heat Input Model for Additive Manufacturing. **2015**,		2
600	Inverse Computational Fluid Dynamics: Influence of Discretization and Model Errors on Flows in Water Network Including Junctions. **2015**, 137,		7
599	Constant-free explicit error estimator with sharp upper error bound property for adaptive FE analysis in elasticity and fracture. *International Journal for Numerical Methods in Engineering*, **2015**, 101, 79-126	2.4	6
598	High-Order, Linear and Non-linear Residual Distribution Schemes for Steady Compressible RANS Equations. **2015**, 231-250		
597	Novel adaptive time stepping method and its application to soil seismic liquefaction analysis. **2015**, 71, 100-113		7
596	Adaptive Boundary Element Methods. **2015**, 22, 309-389		17
595	An anisotropic adaptive finite element algorithm for transonic viscous flows around a wing. **2015**, 111, 33-45		4
594	A recovery-explicit error estimator in energy norm for linear elasticity. **2015**, 287, 172-190		7
593	A unified approach to strict upper and lower bounds of quantities in linear elasticity based on constitutive relation error estimation. **2015**, 286, 332-353		7
592	A new hybrid adaptive mesh algorithm based on Voronoi tessellations and equi-distribution principle: Algorithms and numerical experiments. **2015**, 109, 137-154		2
591	A locally conservative stress recovery technique for continuous Galerkin FEM in linear elasticity. **2015**, 286, 354-372		8
590	Locally equilibrated stress recovery for goal oriented error estimation in the extended finite element method. **2015**, 152, 1-10		25

589	A separated representation of an error indicator for the mesh refinement process under the proper generalized decomposition framework. **2015**, 55, 251-266	12
588	A type of multi-level correction scheme for eigenvalue problems by nonconforming finite element methods. **2015**, 55, 1243-1266	4
587	A Posteriori Estimates for a Natural NeumannNeumann Domain Decomposition Algorithm on a Unilateral Contact Problem. **2015**, 64, 818-836	
586	Superconvergence and a posteriori error estimates of the DG method for scalar hyperbolic problems on Cartesian grids. **2015**, 265, 144-162	3
585	Simple a posteriori error estimators in adaptive isogeometric analysis. **2015**, 70, 1555-1582	23
584	Recovery-based error estimation in the dynamic analysis of offshore wind turbine monopile foundations. **2015**, 70, 24-40	2
583	Superconvergence property of an over-penalized discontinuous Galerkin finite element gradient recovery method. **2015**, 299, 1004-1020	1
582	Goal-oriented error estimation for beams on elastic foundation with double shear effect. **2015**, 39, 4699-4714	1
581	Agile structural analysis for fabrication-aware shape editing. **2015**, 35-36, 163-179	12
580	Scale selection in nonlinear fracture mechanics of heterogeneous materials. **2015**, 95, 3328-3347	20
579	Polynomial preserving recovery of an over-penalized symmetric interior penalty Galerkin method for elliptic problems. **2015**, 20, 1405-1426	4
578	Adaptive thermo-mechanical finite element formulation based on goal-oriented error estimation. **2015**, 102, 27-44	11
577	Experimental study of the ignition delay of diesel/biodiesel blends using a shock tube. **2015**, 134, 1-7	18
576	A recovery-type a posteriori error estimator for gradient elasticity. **2015**, 154, 204-209	3
575	Adaptive finite element based shape optimization in laminated composite plates. **2015**, 153, 19-35	13
574	Numerical Algebra, Matrix Theory, Differential-Algebraic Equations and Control Theory. **2015**,	5
573	Adaptive refinement in the meshless finite volume method for elasticity problems. **2015**, 69, 1420-1443	23
572	Exact 3D boundary representation in finite element analysis based on Cartesian grids independent of the geometry. *International Journal for Numerical Methods in Engineering*, **2015**, 103, 445-468	2.4	38

| 571 | A Mesh Adaptive Procedure for Large Increment Method. **2015**, 07, 1550061 | 1 |

| 570 | hp-adaptive finite element method for linear elasticity using higher-order virtual node method. **2015**, 29, 4299-4312 | 3 |

| 569 | Spatially adaptive hp refinement approach for PN neutron transport equation using spectral element method. **2015**, 85, 1066-1076 | 9 |

| 568 | A recovery-based a posteriori error estimator for H(curl) interface problems. **2015**, 296, 169-195 | 7 |

| 567 | Effect of interface contact conditions on adaptive finite element simulation of sheet forming operations. **2015**, 24, 1-15 | 5 |

| 566 | Strict upper and lower bounds of stress intensity factors at 2D elastic notches based on constitutive relation error estimation. **2015**, 56, 739-752 | 1 |

| 565 | An automatic multilevel refinement technique based on nested local meshes for nonlinear mechanics. **2015**, 147, 14-25 | 8 |

| 564 | Linear and non-linear high order accurate residual distribution schemes for the discretization of the steady compressible NavierStokes equations. **2015**, 283, 329-359 | 25 |

| 563 | Adaptive finite element analysis of elliptic problems based on bubble-type local mesh generation. **2015**, 280, 42-58 | 7 |

| 562 | Variational multiscale a posteriori error estimation for systems. Application to linear elasticity. **2015**, 285, 291-314 | 7 |

| 561 | High-order linear and non-linear residual distribution schemes for turbulent compressible flows. **2015**, 285, 1-31 | 8 |

| 560 | H-Adaptive Updated Lagrangian Approach for Large-Deformation Analysis of Slope Failure. **2015**, 15, 04014092 | 7 |

| 559 | Energy norm based error estimators for adaptive BEM for hypersingular integral equations. **2015**, 95, 15-35 | 20 |

| 558 | A sharp interface isogeometric solution to the Stefan problem. **2015**, 284, 556-582 | 8 |

| 557 | Modeling and simulation of kinked cracks by virtual node XFEM. **2015**, 283, 1425-1466 | 60 |

| 556 | An adaptive node regeneration technique for the efficient solution of elasticity problems using MDLSM method. **2015**, 50, 198-211 | 4 |

| 555 | A Finite Element Primer for Beginners. **2015**, | 1 |

| 554 | Parallel, second-order and consistent remeshing transfer operators for evolving meshes with superconvergence property on surface and volume. **2015**, 93, 70-84 | 10 |

553	Seamless-domain method: a meshfree multiscale numerical analysis. *International Journal for Numerical Methods in Engineering*, **2016**, 106, 243-277	2.4	3
552	Three-dimensional superconvergent gradient recovery on tetrahedral meshes. *International Journal for Numerical Methods in Engineering*, **2016**, 108, 819-838	2.4	6
551	Adaptive isogeometric finite element analysis of steady-state groundwater flow. **2016**, 40, 738-765		20
550	The backward euler anisotropic a posteriori error analysis for parabolic integro-differential equations. **2016**, 32, 1309-1330		4
549	A Line Heat Input Model for Additive Manufacturing. **2016**, 138,		39
548	Modelling Process. **2016**, 339-346		
547	Toward 4D mechanical correlation. **2016**, 3,		33
546	Simulation of metal forming processes with a 3D adaptive remeshing procedure. **2016**,		3
545	Introduction. **2016**, 1-10		
544	A multi-level refinement adaptive scheme with high efficiency and accuracy. **2016**, 33, 2216-2236		
543	A New Extrapolation-Based Uncertainty Estimator for Computational Fluid Dynamics. **2016**, 1,		11
542	A mesh adaptivity scheme on the Landau〖e Gennes functional minimization case in 3D, and its driving efficiency. **2016**, 321, 981-996		12
541	Application of h-adaptivity to the interface current collision probability method. **2016**, 94, 826-831		3
540	Improved adaptive mesh refinement for conformal hexahedral meshes. **2016**, 102, 14-28		5
539	Adaptive technique for discrete models of fracture. **2016**, 100-101, 376-387		13
538	Goal-oriented error estimation and adaptive mesh refinement in dynamic coupled thermoelasticity. **2016**, 173, 187-211		13
537	Bilayer-thickness-mediated interactions between integral membrane proteins. **2016**, 93, 042410		20
536	Numerical modeling of 3-D inclusions and voids by a novel adaptive XFEM. **2016**, 102, 105-122		53

| 535 | NPBS-based adaptive finite element method for static electromagnetic problems. **2016**, 30, 2020-2038 | 1 |

| 534 | Architecture and Function of Mechanosensitive Membrane Protein Lattices. **2016**, 6, 19214 | 16 |

| 533 | A new adaptive meshing method using non-conforming finite element method. **2016**, | |

| 532 | Stress Recovery Based h-Adaptive Finite Element Simulation of Sheet Forming Operations. **2016**, 97, 451-467 | |

| 531 | Yield-stress based error indicator for adaptive quasi-static yield design of structures. **2016**, 171, 1-8 | 6 |

| 530 | Influence of different mechanical stimuli in a multi-scale mechanobiological isotropic model for bone remodelling. **2016**, 38, 904-10 | 13 |

| 529 | A new approach to automatic and a priori mesh adaptation around circular holes for finite element analysis. **2016**, 77, 18-45 | 4 |

| 528 | Fundaments of Recovery-Based Error Estimation and Bounding. **2016**, 33-57 | |

| 527 | The Constitutive Relation Error Method: A General Verification Tool. **2016**, 59-94 | 3 |

| 526 | Development of error criteria for adaptive multi-element polynomial chaos approaches. **2016**, 66-67, 201-222 | 11 |

| 525 | Verifying Calculations - Forty Years On. **2016**, | 5 |

| 524 | Recovery-Based Error Estimator for the Discontinuous Galerkin Method for Nonlinear Scalar Conservation Laws in One Space Dimension. **2016**, 66, 459-476 | 2 |

| 523 | Stress distribution of the patellofemoral joint in the anatomic V-shape and curved dome-shape femoral component: a comparison of resurfaced and unresurfaced patellae. **2017**, 25, 263-271 | 16 |

| 522 | Goal-oriented error estimation and mesh adaptivity in 3d elastoplasticity problems. **2017**, 203, 3-19 | 4 |

| 521 | Mesh refinement strategies without mapping of nonlinear solutions for the generalized and standard FEM analysis of 3-D cohesive fractures. *International Journal for Numerical Methods in Engineering*, **2017**, 109, 235-258 | 2.4 | 4 |

| 520 | Superconvergent patch recovery and a posteriori error estimation technique in adaptive isogeometric analysis. **2017**, 316, 1086-1156 | 35 |

| 519 | Adaptive multistep time discretization and linearization based on a posteriori error estimates for the Richards equation. **2017**, 112, 104-125 | 4 |

| 518 | Error-controlled adaptive extended finite element method for 3D linear elastic crack propagation. **2017**, 318, 319-348 | 45 |

517	Calibration experimental design considering field response and model uncertainty. **2017**, 318, 92-119		31
516	A Multilevel Correction Method for Interior Transmission Eigenvalue Problem. **2017**, 72, 586-604		5
515	On the coupling of local multilevel mesh refinement and ZZ methods for unilateral frictional contact problems in elastostatics. **2017**, 323, 1-26		7
514	Towards quantitative mesh pre-optimization for finite element analysis. **2017**, 14, 392-407		
513	Simulation of two- and three-dimensional viscoplastic flows using adaptive mesh refinement. *International Journal for Numerical Methods in Engineering*, **2017**, 112, 1636-1658	2.4	3
512	An extended cohesive damage model for simulating arbitrary damage propagation in engineering materials. **2017**, 315, 744-759		18
511	Extended isogeometric analysis based on PHT-splines for crack propagation near inclusions. *International Journal for Numerical Methods in Engineering*, **2017**, 112, 1777-1800	2.4	44
510	Strict upper and lower bounds for quantities of interest in static response sensitivity analysis. **2017**, 49, 17-34		2
509	Parametric shape optimization techniques based on Meshless methods: A review. **2017**, 56, 1197-1214		10
508	A posteriori error estimator based on derivative recovery for the discontinuous Galerkin method for nonlinear hyperbolic conservation laws on Cartesian grids. **2017**, 33, 1224-1265		4
507	Refficientlib: An Efficient Load-Rebalanced Adaptive Mesh Refinement Algorithm for High-Performance Computational Physics Meshes. **2017**, 39, C65-C95		9
506	A-posteriori error estimation for the finite point method with applications to compressible flow. **2017**, 60, 219-233		3
505	A Recovery-Based Error Estimator for the Discontinuous Galerkin Method for Transient Linear Hyperbolic Conservation Laws on Cartesian Grids. **2017**, 14, 1750062		4
504	Robust h-adaptive meshing strategy considering exact arbitrary CAD geometries in a Cartesian grid framework. **2017**, 193, 87-109		10
503	Stability of reticulated shell with steel panel as the bracing and time-varying structure for LNG tank during concrete dome casting. **2017**, 17, 1145-1156		1
502	Numerical simulation of holes and inclusions using adaptive polygonal finite element method. **2017**, 31, 4305-4317		4
501	Adaptive superelement modeling for progressive collapse analysis of reinforced concrete frames. **2017**, 151, 136-152		6
500	An enhanced-strain error estimator for Galerkin meshfree methods based on stabilized conforming nodal integration. **2017**, 74, 2144-2171		7

499	Structured mesh refinement in MLS-based numerical manifold method and its application to crack problems. **2017**, 84, 42-51		13
498	Direct medical image-based Finite Element modelling for patient-specific simulation of future implants. **2017**, 136, 37-57		10
497	Improved recovery of admissible stress in domain decomposition methods application to heterogeneous structures and new error bounds for FETI-DP. *International Journal for Numerical Methods in Engineering*, **2017**, 111, 69-87	2.4	6
496	The Simulation of Precipitation Evolutions and Mechanical Properties in Friction Stir Welding with Post-Weld Heat Treatments. **2017**, 26, 5731-5740		13
495	Parallel anisotropic mesh refinement with dynamic load balancing for transonic flow simulations. **2017**, 65, 195-207		
494	Multiscale Structure Simulation Using Adaptive Mesh in DGTD Method. **2017**, 2, 115-123		4
493	Adaptive RBF-FD method for elliptic problems with point singularities in 2D. **2017**, 313, 474-497		23
492	Variational projection methods for gradient crystal plasticity using Lie algebras. *International Journal for Numerical Methods in Engineering*, **2017**, 110, 303-332	2.4	7
491	Error sensitivity to refinement: a criterion for optimal grid adaptation. **2017**, 31, 595-605		5
490	Error transport equation boundary conditions for the Euler and NavierStokes equations. **2017**, 330, 46-64		1
489	Polynomial Preserving Recovery for High Frequency Wave Propagation. **2017**, 71, 594-614		6
488	Improved ZZ a posteriori error estimators for diffusion problems: Conforming linear elements. **2017**, 313, 433-449		6
487	A stochastic computational method based on goal-oriented error estimation for heterogeneous geological materials. **2017**, 225, 103-113		1
486	3-D local mesh refinement XFEM with variable-node hexahedron elements for extraction of stress intensity factors of straight and curved planar cracks. **2017**, 313, 375-405		78
485	hp Fast multipole boundary element method for 3D acoustics. *International Journal for Numerical Methods in Engineering*, **2017**, 110, 842-861	2.4	4
484	A highly efficient numerical approach: extended cohesive damage model for predicting multicrack propagation. **2017**, 34, 371-385		3
483	Fracture strain of gun steel for ultra-high-pressure vessels considering triaxiality effect. **2017**, 9, 168781401771497		1
482	p-Adaptive Refinement Based on Stress Recovery Technique Considering Ordinary Kriging Interpolation in L-Shaped Domain. **2017**, 2017, 1-10		

481   Influence of wall thickness and properties of structural materials on the discharge temperature and strength characteristics of slow-speed long-stroke stages. **2017**,   1

480   Computational Modeling of Forming Processes. **2017**, 1-51

479   High-Order Methods for CFD. **2017**, 1-54   5

478   Finite Element Methods for Elasticity with Error-Controlled Discretization and Model Adaptivity. **2017**, 1-96   4

477   Smoothed finite element method for time dependent analysis of quantum resonance devices. **2018**, 50, 1   2

476   Variational multiscale error estimators for the adaptive mesh refinement of compressible flow simulations. **2018**, 337, 501-526   6

475   Adaptive multi-patch isogeometric analysis based on locally refined B-splines. **2018**, 339, 704-738   44

474   Adaptive floating node method for modelling cohesive fracture of composite materials. **2018**, 194, 240-261   21

473   An adaptive variational procedure for the conservative and positivity preserving Allen–Cahn phase-field model. **2018**, 366, 478-504   17

472   A novel and simple a posteriori error estimator for LMS methods under the umbrella of GSSSS framework: Adaptive time stepping in second-order dynamical systems. **2018**, 334, 414-439   7

471   Structural shape optimization using Cartesian grids and automatic h-adaptive mesh projection. **2018**, 58, 61-81   2

470   Projection and transfer operators in adaptive isogeometric analysis with hierarchical B-splines. **2018**, 334, 313-336   26

469   Efficient Large-Scale Thermoelastic Topology Optimization of CAD Geometry with Automated Adaptive Mesh Generation. **2018**,   3

468   Designing of a Low-Cost Optical Density Meter for Medical Applications. **2018**, 271-285

467   Shape Optimization Procedure of Interior Permanent Magnet Motors Considering Carrier Harmonic Losses Caused by Inverters. **2018**, 54, 1-4   6

466   An h-adaptive numerical manifold method for solid mechanics problems. **2018**, 61, 923-933   4

465   Accuracy of the Finite Element Method in Three Dimensions. **2018**, 69-74

464   On the error analysis of the meshless FDM and its multipoint extension. **2018**,

463	3-D direct current resistivity anisotropic modelling by goal-oriented adaptive finite element methods. **2018**, 212, 76-87		12
462	Space-time mesh adaptation for solute transport in randomly heterogeneous porous media. **2018**, 212, 28-40		1
461	Residual error based adaptive mesh refinement with the non-intrusive patch algorithm. **2018**, 329, 118-143		8
460	Modelling of pastes as viscous soils ILubricated squeeze flow. **2018**, 323, 250-268		4
459	Mesh adaptation using C1 interpolation of the solution in an unstructured finite volume solver. **2018**, 86, 637-654		2
458	Strong-form approach to elasticity: Hybrid finite difference-meshless collocation method (FDMCM). **2018**, 57, 316-338		14
457	Anisotropic mesh adaptation for the generalized AmbrosioTortorelli functional with application to brittle fracture. **2018**, 75, 2134-2152		5
456	Thermo-Mechanical Modeling of Large Electron Beam Builds. **2018**, 167-181		3
455	Towards simplified and optimized a posteriori error estimation using PGD reduced models. *International Journal for Numerical Methods in Engineering*, **2018**, 113, 967-998	2.4	1
454	Numerical simulation of 2-D weak and strong discontinuities by a novel approach based on XFEM with local mesh refinement. **2018**, 196, 112-133		62
453	Adaptive ANCF method and its application in planar flexible cables. **2018**, 34, 199-213		17
452	An extension of shape sensitivity analysis to an immersed boundary method based on Cartesian grids. **2018**, 62, 701-723		2
451	Adjoint-Based Functional Correction for Unstructured Mesh Finite Volume Methods. **2018**, 76, 1-23		8
450	Fully reliable error control for first-order evolutionary problems. **2018**, 75, 1302-1329		3
449	A novel model order reduction framework via staggered reduced basis space-time finite elements in linear first order transient systems. **2018**, 117, 991-1005		4
448	Anisotropic Meshes and Stabilization Parameter Design of Linear SUPG Method for 2D Convection-Dominated ConvectionDiffusion Equations. **2018**, 76, 48-68		1
447	An Optimal Radius of Influence Domain in Element-Free Galerkin Method. **2018**,		1
446	Mesh convergence study and estimation of discretization error of hub in clutch disc with integration of ANSYS. **2018**, 402, 012065		9

445   Error driven remeshing strategy in an elastic-plastic shakedown problem. **2018**,

444   Evaluation of stress-strain state of the slow-speed compressor cylinder. **2018**,   0

443   A Statistical Approach for Error Estimation in Adaptive Finite Element Method. **2018**, 19, 440-450   1

442   2. Improving Policies For Hamilton Jacobi Bellman Equations By Postprocessing. **2018**, 25-42   1

441   Some a Posteriori Error Bounds for Numerical Solutions of Plate in Bending Problems. **2018**, 39, 904-915   3

440   A new a posteriori error indicator and its mesh optimization for nonlocal concrete damage models. **2018**, 15,

439   Automatic Mesh Generation, Error Estimation, and Auto-adaptation Technique. **2018**, 739-749

438   High-Performance Computing: Dos and Don ts. **2018**,   5

437   A hybrid a posteriori error estimator for conforming finite element approximations. **2018**, 339, 320-340   4

436   Multi-inclusions modeling by adaptive XIGA based on LR B-splines and multiple level sets. **2018**, 148, 48-66   38

435   Adaptive stopping criterion for iterative linear solvers combined with anisotropic mesh adaptation, application to convection-dominated problems. **2018**, 340, 864-880   3

434   New mixed finite elements for the discretization of piezoelectric structures or macro-fiber composites. **2018**, 29, 3266-3283   8

433   Analysis of the Residual-Type and the Gradient Recovery-Type a Posteriori Error Estimators for a Consistent Atomistic-to-Continuum Coupling Method in One-Dimension. **2018**, 16, 679-709   3

432   Adaptive Constitutive Soil Modeling Concept in Mechanized Tunneling Simulation. **2018**, 18, 04018114   5

431   An error indicator for finite difference methods using spectral techniques with application to aerofoil simulation. **2018**, 168, 67-72   7

430   Evaluation of material decomposition for pulmonary function test in spectral computed tomography: A Monte Carlo simulation study. **2018**, 174, 409-415   2

429   A posteriori error estimators for stabilized finite element approximations of an optimal control problem. **2018**, 340, 147-177   2

428   Numerical simulation of metal forming processes with 3D adaptive Remeshing strategy based on a posteriori error estimation. **2019**, 12, 411-428   4

| 427 | Adaptive orthotropic XIGA for fracture analysis of composites. **2019**, 176, 107259 | 18 |

| 426 | BEM-based Finite Element Approaches on Polytopal Meshes. **2019**, | 2 |

| 425 | A Conforming DG Method for Linear Nonlocal Models with Integrable Kernels. **2019**, 80, 1913-1935 | 7 |

| 424 | Discrete inclusion models for reinforced composites: Comparative performance analysis and modeling challenges. **2019**, 355, 535-557 | 6 |

| 423 | Novel quadtree algorithm for adaptive analysis based on cell-based smoothed finite element method. **2019**, 106, 541-554 | 9 |

| 422 | Adaptive boundary element methods for the computation of the electrostatic capacity on complex polyhedra. **2019**, 397, 108837 | 2 |

| 421 | Strain-gradient elasticity and gradient-dependent plasticity with hierarchical refinement of NURBS. **2019**, 163, 31-43 | 8 |

| 420 | A scalable framework for large-scale 3D multimaterial topology optimization with octree-based mesh adaptation. **2019**, 135, 102682 | 7 |

| 419 | Adaptive extended isogeometric analysis based on PHT-splines for thin cracked plates and shells with Kirchhoff[love theory. **2019**, 76, 759-799 | 16 |

| 418 | Adaptive phase field method for quasi-static brittle fracture using a recovery based error indicator and quadtree decomposition. **2019**, 220, 106599 | 17 |

| 417 | Superconvergent gradient recovery for virtual element methods. **2019**, 29, 2007-2031 | 13 |

| 416 | An Explicit Meshless Point Collocation Solver for Incompressible Navier-Stokes Equations. **2019**, 4, 164 | 3 |

| 415 | A configurational force for adaptive re-meshing of gradient-enhanced poromechanics problems with history-dependent variables. **2019**, 357, 112572 | 10 |

| 414 | Numerical simulation of arbitrary holes in orthotropic media by an efficient computational method based on adaptive XIGA. **2019**, 229, 111387 | 14 |

| 413 | Adaptive finite element analysis with local mesh refinement based on a posteriori error estimate of element energy projection technique. **2019**, 36, 2010-2033 | 6 |

| 412 | Implementation and performance of adaptive mesh refinement in the Ice Sheet System Model (ISSM v4.14). **2019**, 12, 215-232 | 3 |

| 411 | Variational h-adaption method for the phase field approach to fracture. **2019**, 217, 83-103 | 8 |

| 410 | Fracture modeling with the adaptive XIGA based on locally refined B-splines. **2019**, 354, 527-567 | 20 |

409	Computational modal analysis of a composite pelvic bone: convergence and validation studies. **2019**, 22, 916-924		2
408	Accuracy Quantification of the Reverse Engineering and High-Order Finite Element Analysis of Equine MC3 Forelimb. **2019**, 78, 94-106		10
407	Original geometrical stopping criteria associated to multilevel adaptive mesh refinement for problems with local singularities. **2019**, 64, 645-661		1
406	Efficient and accurate stress recovery procedure and a posteriori error estimator for the stable generalized/extended finite element method. *International Journal for Numerical Methods in Engineering*, **2019**, 119, 1279	2.4	3
405	Adaptive radial basis function generated finite differences method for contact problems. *International Journal for Numerical Methods in Engineering*, **2019**, 119, 661-686	2.4	14
404	Discretization error control for constrained aerodynamic shape optimization. **2019**, 387, 163-185		8
403	Mesh adaptation-aided image segmentation. **2019**, 74, 147-166		2
402	Adaptivity in Bayesian Inverse Finite Element Problems: Learning and Simultaneous Control of Discretisation and Sampling Errors. **2019**, 12,		1
401	Improved Equilibrated Error Estimates for Open Boundary Magnetostatic Problems Based on Dual A and H Formulations. **2019**, 55, 1-5		1
400	Topology optimization driven by anisotropic mesh adaptation: Towards a free-form design. **2019**, 214, 60-72		16
399	POD-assisted strategies for structural topology optimization. **2019**, 77, 2804-2820		11
398	Recovery-based error estimator for the natural-convection problem based on penalized finite element method. **2019**, 29, 4850-4874		
397	Interactions between adaptive time-integrators and adaptive meshing in a monolithic FEM solver. **2019**, 29, 2297-2323		0
396	Variational h-adaption for coupled thermomechanical problems. **2019**, 37, 1261-1290		1
395	The Virtual Mesh Refinement (VMR) in The Finite Element Method for Stress Concentration Analysis. **2019**,		
394	Weighted Goal-oriented Adaptive Finite-element for 3D Transient EM Modeling. **2019**, 24, 249-264		2
393	A New Nodal Stress Recovery Technique in Finite Element Method Using Colliding Bodies Optimization Algorithm. **2019**,		
392	References. **2019**, 559-573		

391	Combined Field/System Simulations of Low-Frequency Devices in Time Domain based on Adaptive Nonlinear Reduced Order Models. **2019**,	
390	Gradient Recovery for the BEM-based FEM and VEM. **2019**, 19, e201900092	1
389	Estimation of Errors in Stress Distributions Computed in Finite Element Simulations of Polycrystals. **2019**, 8, 476-494	4
388	Experimental and kinetic studies of ignition processes of the methane∏-heptane mixtures. **2019**, 235, 522-529	26
387	Computational Methods for Ductile Fracture Modeling at the Microscale. **2019**, 26, 1153-1192	6
386	A Multi Scale Strategy for Simulation of Microstructural Evolutions in Friction Stir Welding of Duplex Titanium Alloy. **2019**, 38, 485-497	3
385	Bloch theory-based gradient recovery method for computing topological edge modes in photonic graphene. **2019**, 379, 403-420	7
384	Finite beam elements based on Legendre polynomial expansions and node-dependent kinematics for the global-local analysis of composite structures. **2019**, 74, 112-123	9
383	h- and p-adaptivity driven by recovery and residual-based error estimators for PHT-splines applied to time-harmonic acoustics. **2019**, 77, 2369-2395	29
382	Polynomial preserving recovery for a class of weak Galerkin finite element methods. **2019**, 362, 528-539	3
381	Anisotropic Mesh Refinement Considering a Recovery-Based Error Estimator and Metric Tensors. **2019**, 44, 5613-5630	0
380	Partial Differential Equations with Random Input Data: A Perturbation Approach. **2019**, 26, 1313-1377	3
379	Adaptive analysis of plates and laminates using natural neighbor Galerkin meshless method. **2019**, 35, 201-214	4
378	A Fully Automatic h-Adaptive Analysis Procedure Using the Edge-Based Smoothed Point Interpolation Method. **2020**, 17, 1845001	3
377	Optimal procedure for the identification of constitutive parameters from experimentally measured displacement fields. **2020**, 184, 14-23	9
376	Pointwise dual weighted residual based goal-oriented a posteriori error estimation and adaptive mesh refinement in 2D/3D thermo-mechanical multifield problems. **2020**, 359, 112666	3
375	Robust equilibrated a posteriori error estimator for higher order finite element approximations to diffusion problems. **2020**, 144, 1-21	2
374	Quantifying discretization errors for soft tissue simulation in computer assisted surgery: A preliminary study. **2020**, 77, 709-723	21

373	Superconvergent patch recovery with constraints for three-dimensional contact problems within the Cartesian grid Finite Element Method. *International Journal for Numerical Methods in Engineering*, **2020**, 121, 1297-1313	2.4	2
372	Adaptive Construction of Model-Consistent Wall Functions for Two-Equation Turbulence Models with Applications. **2020**,		
371	Curl recovery for the lowest order rectangular edge element. **2020**, 371, 124897		
370	Implicit a posteriori error estimation in cut finite elements. **2020**, 65, 967-988		3
369	An a posteriori residual-based spatial discretization error estimator for SN neutron transport. **2020**, 137, 107092		2
368	New elements with harmonic shape functions in adaptive mesh refinement. **2020**, 170, 103366		
367	Combination of an adaptive remeshing technique with a coupled FEM-DEM approach for analysis of crack propagation problems. **2020**, 7, 735-752		3
366	Application of PHT-splines in bending and vibration analysis of cracked Kirchhoff-Love plates. **2020**, 361, 112754		6
365	Adaptive analysis using scaled boundary finite element method in 3D. **2020**, 372, 113374		6
364	Remapping-free variational h-adaption for strongly coupled thermo-mechanical problems. **2020**, 176, 103435		1
363	Numerical modeling of wing crack propagation accounting for fracture contact mechanics. **2020**, 204-205, 233-247		3
362	Adptive Multi-scale Finite Element Considering Local Buckling of Members for Latticed Frames. **2020**, 446, 052046		
361	Shape Optimization of a Backward Extrusion Process Using a Non-Invasive Form Finding Algorithm. **2020**, 47, 873-880		2
360	Finite element mesh improvement using an a priori local p-refinement for stress analysis of underground excavations. **2020**, 7, 1769287		
359	An h-adaptive element-free Galerkin meshless method using a posteriori error estimator. **2020**, 25, 101468		1
358	Auto-ignition characteristics of methane/n-heptane mixtures under carbon dioxide and water dilution conditions. **2020**, 278, 115639		4
357	An efficient stress recovery technique in adaptive finite element method using artificial neural network. **2020**, 237, 107231		3
356	Effects of arbitrary holes/voids on crack growth using local mesh refinement adaptive XIGA. **2020**, 109, 102724		4

355	h-adaptive topology optimization considering variations of material properties and energy error density recovery. **2020**, 37, 3209-3241	1
354	3-D adaptive FEA with weighted node density technique. **2020**, 39, 1201-1213	0
353	Finite element procedures for computing normals and mean curvature on triangulated surfaces and their use for mesh refinement. **2020**, 372, 113445	2
352	Analysis of the uniqueness and stability of solutions to problems regarding the bone-remodeling process. **2020**, 85, 113-122	2
351	An optimization algorithm for automatic structural design. **2020**, 372, 113335	7
350	An adaptive algorithm for the transport equation with time dependent velocity. **2020**, 2, 1	
349	Bibliography. **2020**, 317-325	
348	Anisotropic Adapted Meshes for Image Segmentation: Application to Three-Dimensional Medical Data. **2020**, 13, 2189-2212	3
347	Modelling Steady Convection-Dominated Phenomena by Node-Adaptive Radial Point Interpolation Meshfree Method (RPIM) with Various RBFs. **2020**, 1489, 012011	
346	Recovery-based error estimators for the VEM and BEM-based FEM. **2020**, 80, 2073-2089	1
345	Monotonicity-preserving finite element schemes with adaptive mesh refinement for hyperbolic problems. **2020**, 416, 109522	2
344	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion. **2020**, 47, 649-655	3
343	A parametric knot adaptation approach to isogeometric analysis of contact problems. **2020**, 1	
342	Shell finite element models with local kinematic refinements based on Reissner𝕊 Mixed Variational Theorem with layer-wise descriptions. **2020**, 250, 112587	2
341	Transverse Circular Holes in Cylindrical Tubes Loaded in Traction and in Flexion: A New Analytical Approximation of the Stress Concentration Factor. **2020**, 13,	2
340	Error analysis for quadtree-type mesh coarsening algorithms adapted to pixelized heterogeneous microstructures. **2020**, 65, 1467-1491	1
339	On the use of stabilization techniques in the Cartesian grid finite element method framework for iterative solvers. *International Journal for Numerical Methods in Engineering*, **2020**, 121, 3004-3020	2.4 2
338	Error-controlled adaptive LR B-splines XIGA for assessment of fracture parameters in through-cracked Mindlin-Reissner plates. **2020**, 229, 106964	16

337	Compliance Stress constrained mass minimization for topology optimization on anisotropic meshes. **2020**, 2, 1		6
336	Numerical Testing of Switch Point Dynamics-A Curved Beam with a Variable Cross-Section. **2020**, 13,		4
335	Shock tube and kinetic study on ignition characteristics of lean methane/n-heptane mixtures at low and elevated pressures. **2020**, 197, 117242		9
334	An automated a priori knowledge-based p-adaptive three-dimensional finite element mesh improvement method for stress analysis of underground excavations with prismatic cross-sections. **2020**, 1-14		
333	Numerical Methods for Flows. **2020**,		
332	Error indicators for incompressible Darcy Flow problems using Enhanced Velocity Mixed Finite Element Method. **2020**, 363, 112884		6
331	Adaptive Finite Element Method of Lines with Local Mesh Refinement in Maximum Norm Based on Element Energy Projection Method. **2020**, 17, 1950008		0
330	Crack growth adaptive XIGA simulation in isotropic and orthotropic materials. **2020**, 365, 113016		19
329	Application of Adaptive Phase-Field Scaled Boundary Finite Element Method for Functionally Graded Materials. **2021**, 18, 2041007		1
328	Computational Morphogenesis: Morphologic constructions using polygonal discretizations. *International Journal for Numerical Methods in Engineering*, **2021**, 122, 25-52	2.4	0
327	Finite Elements Using Neural Networks and a Posteriori Error. **2021**, 28, 3433-3456		4
326	Composite FG plates with different internal cutouts: Adaptive IGA buckling analysis without trimmed surfaces. **2021**, 259, 113392		5
325	A two-dimensional, adaptive finite element approach for simulation of backward erosion piping. **2021**, 129, 103820		3
324	FEMS A Mechanics-oriented Finite Element Modeling Software. **2021**, 260, 107729		0
323	Improved ZZ a posteriori error estimators for diffusion problems: Discontinuous elements. **2021**, 159, 174-189		1
322	Fluid-structure interaction with H(div)-conforming finite elements. **2021**, 243, 106402		2
321	Adaptive Extended Isogeometric Analysis for Steady-State Heat Transfer in Heterogeneous Media. **2021**, 126, 1315-1332		0
320	Calibration of Concrete Damaged Plasticity Model parameters for shear walls. **2021**, 26,		0

| 319 | AIR Algebraic Multigrid for a Space-Time Hybridizable Discontinuous Galerkin Discretization of Advection(-Diffusion). **2021**, 43, A3393-A3416 | 1 |

| 318 | A hierarchically enhanced recovery-based error estimator for bidimensional elastoplastic modelling by generalized finite element approach. **2021**, 232, 881-906 | |

| 317 | Smart Adaptive Mesh Refinement with NEMoSys. **2021**, | 0 |

| 316 | Plate, Shell, and Solid Structures. **2021**, 191-537 | |

| 315 | Micro computed tomography based finite element models for elastic and strength properties of 3D printed glass scaffolds. **2021**, 37, 292-306 | 0 |

| 314 | Numerical simulation and experimental research on friction stir welding of 2024-T3 aeronautical aluminum alloy. 1-19 | 5 |

| 313 | Goal oriented error estimation in multi-scale shell element finite element problems. **2021**, 8, | 0 |

| 312 | Superconvergent Flux Recovery of the Rannacher Turek Nonconforming Element. **2021**, 87, 1 | 1 |

| 311 | Adaptive finite element analysis of free vibration of elastic membranes via element energy projection technique. **2021**, 38, 3492-3516 | 0 |

| 310 | On the derivation of guaranteed and p-robust a posteriori error estimates for the Helmholtz equation. **2021**, 148, 525-573 | 2 |

| 309 | Optimal superconvergence and asymptotically exact a posteriori error estimator for the local discontinuous Galerkin method for linear elliptic problems on Cartesian grids. **2021**, 162, 201-224 | 3 |

| 308 | An adaptive XIGA with locally refined NURBS for modeling cracked composite FG Mindlin Reissner plates. 1 | 3 |

| 307 | Computerized Generation and Finite Element Stress Analysis of Endodontic Rotary Files. **2021**, 11, 4329 | 5 |

| 306 | Hybrid analysis and modeling, eclecticism, and multifidelity computing toward digital twin revolution. **2021**, 44, e202100007 | 7 |

| 305 | A Multiscale Failure Modeling Framework for Strain Localization in Quasi-Brittle Materials. 2150045 | 1 |

| 304 | Multi-patch local mesh refinement XIGA based on LR NURBS and Nitsche method for crack growth in complex cracked plates. **2021**, 250, 107780 | 7 |

| 303 | Residual Estimates for Post-processors in Elliptic Problems. **2021**, 88, 1 | 2 |

| 302 | Bone Stress-Strain State Evaluation Using CT Based FEM. **2021**, 7, | |

301	Error estimation for the polygonal finite element method for smooth and singular linear elasticity. **2021**, 92, 109-119	3
300	A unified framework for the computational comparison of adaptive mesh refinement strategies for all-quadrilateral and all-hexahedral meshes: Locally adaptive multigrid methods versus h-adaptive methods. **2021**, 437, 110310	0
299	MeshingNet3D: Efficient generation of adapted tetrahedral meshes for computational mechanics. **2021**, 157-158, 103021	1
298	Conservative Galerkin methods for dispersive Hamiltonian problems. **2021**, 58, 1	
297	Generation of Error Indicators for Partial Differential Equations by Machine Learning Methods. **2022**, 63-96	
296	Mesh Free Radial Point Interpolation Based Displacement Recovery Techniques for Elastic Finite Element Analysis. **2021**, 9, 1900	
295	Extended isogeometric analysis using B++ splines for strong discontinuous problems. **2021**, 381, 113779	2
294	Comparative study of multiscale computational strategies for materials with discrete microstructures. **2021**, 382, 113883	2
293	An improved node moving technique for adaptive analysis using collocated discrete least squares meshless method. **2021**, 130, 322-331	2
292	Evaluating the solution accuracy of the heat equation by a posteriori error estimation. **2021**, 2012, 012095	
291	An efficient automatic adaptive algorithm for cohesive crack propagation modeling of concrete structures using matrix-free unstructured Galerkin Finite Volume Method. **2021**, 97, 237-250	0
290	Parametric study and preliminary transposition of the modal and structural responses of the Tr-FRANCIS turbine at speed-no-load operating condition. **2021**, 106, 103382	0
289	Robust recovery-type a posteriori error estimators for streamline upwind/Petrov Galerkin discretizations for singularly perturbed problems. **2021**, 168, 23-40	
288	An adaptive local maximum entropy point collocation method for linear elasticity. **2021**, 256, 106644	
287	Analysis of thermal effect on buckling of imperfect FG composite plates by adaptive XIGA. **2021**, 275, 114450	1
286	A higher-order finite element method with unstructured anisotropic mesh adaption for two phase flows with surface tension. **2021**, 230, 105154	1
285	Thermal buckling adaptive multi-patch isogeometric analysis of arbitrary complex-shaped plates based on locally refined NURBS and Nitsche method. **2021**, 169, 108383	0
284	A hybrid potential of mean force approach for simulation of fracture in heterogeneous media. **2021**, 386, 114084	1

| 283 | Moving Least Squares Interpolation Based A-Posteriori Error Technique in Finite Element Elastic Analysis. **2021**, 129, 167-189 | 1 |

| 282 | Finite Element Methods for Elasticity with Error-controlled Discretization and Model Adaptivity. | 5 |

| 281 | Numerical Simulations of Subcritical Crack Growth by Stress Corrosion in An Elastic Solid. **2000**, 331-348 | 1 |

| 280 | Efficient Solvers for 3-D Homogenized Elasticity Model. **2006**, 857-863 | 2 |

| 279 | Adaptive Finite Element Solution of Variational Inequalities with Application in Contact Problems. **2009**, 25 | 2 |

| 278 | The Theory and Implementation of the Quasicontinuum Method. **2005**, 663-682 | 4 |

| 277 | Computational Model Verification and Validation in Structural Mechanics. **2009**, 135-153 | 1 |

| 276 | Hierarchical Meshing for the Adaptive Finite Elements. **2009**, 291-305 | 4 |

| 275 | Continuum and Numerical Simulation of Porous Materials in Science and Technology. **2002**, 245-292 | 4 |

| 274 | A General Concept of Adaptivity in Finite Element Methods with Applications to Problems in Fluid and Structural Mechanics. **1999**, 51-75 | 1 |

| 273 | A Comparison of Local and Global Projections in Design Sensitivity Computations. **1998**, 361-373 | 3 |

| 272 | Applications of Automatic Mesh Generation and Adaptive Methods in Computational Medicine. **1995**, 367-393 | 6 |

| 271 | An Adaptive Finite Element Technique for Nonlinear Contact Problems. **1995**, 183-194 | 4 |

| 270 | A Projection Method for Accurate Computation of Design Sensitivities. **1998**, 40-66 | 3 |

| 269 | Finite Element Methods for the Incompressible Navier-Stokes Equations. **2000**, 191-293 | 42 |

| 268 | A Story on Adaptive Finite Element Computations for Elliptic Eigenvalue Problems. **2015**, 223-255 | 1 |

| 267 | Adaptive Grid Refinement for Computation of the Homogenized Elasticity Tensor. **2004**, 371-378 | 1 |

| 266 | Comparative Study of the a Posteriori Error Estimators for the Stokes Problem. **2006**, 252-259 | 3 |

247	Parallel Computations for Structural Analysis, Re-Analysis and Optimization. **1993**, 767-792	2
246	An Optimization-Based Approach to the Domain Decomposition Problem in Parallel Finite Element Analysis. **1993**, 535-546	2
245	An Approach to H-Adaptive Boundary Element Method Using Local Reanalysis. **1992**, 905-918	2
244	An Auto-Adaptive Meshing Process in a Finite Element Software. **1991**, 363-374	2
243	Model Quality Assessment and Model Updating. **1999**, 305-324	4
242	Error Control in Finite Element Computations. **1999**, 247-278	18
241	Adaptive Techniques in the Finite Element Method. **2019**, 315-385	1
240	A Post-Processor for Adaptive Meshing for Problems with Steep Gradient Areas. **1993**, 157-166	1
239	Introduction to A Posteriori Error Analysis Procedures: Pointwise Error Measures and A New Approach for Strain Extraction. **1999**, 387-404	1
238	A locally refined adaptive isogeometric analysis for steady-state heat conduction problems. **2020**, 117, 119-131	8
237	Strict error bounds for linear and nonlinear solid mechanics problems using a patch-based flux-free method. **2010**, 11, 249-254	1
236	A new simple h-mesh adaptation algorithm for standard Smagorinsky LES: a first step of Taylor scale as a refinement variable. **2010**, 4, 33-50	1
235	A meshfree adaptive procedure for shells in the sheet metal forming applications. **2013**, 6, 137-156	6
234	An adaptive control of spatial-temporal discretization error in finite element analysis of dynamic problems. **1995**, 3, 391-410	7
233	A modified Zienkiewicz-Zhu error estimator. **1996**, 4, 1-8	2
232	Boundary stress resolution and its application to adaptive finite element analysis. **1998**, 6, 115-124	1
231	A posteriori error estimator for hierarchical models for elastic bodies with thin domain. **1999**, 8, 513-529	1
230	Adaptive nodal generation with the element-free Galerkin method. **2000**, 10, 635-650	4

229	Variable-node axisymmetric solid element and its application to adaptive mesh refinement. **2001**, 11, 443-460	4
228	Semi-analytical elastostatic analysis of two-dimensional domains with similar boundaries. **2002**, 14, 99-118	2
227	Adaptive mesh refinement/recovery strategy for FEA. **2004**, 17, 379-391	6
226	An edge-based smoothed finite element method for adaptive analysis. **2011**, 39, 767-793	5
225	Variable-node element families for mesh connection and adaptive mesh computation. **2012**, 43, 349-370	22
224	High Accuracy Torque Calculation for a Rotating Machine Using Adaptive Meshing. **2003**, 123, 790-797	2
223	Adaptive Finite Element Meshing at Each Iterative Calculation for Electromagnetic Field Analysis of Rotating Machines. **2005**, 125, 259-269	4
222	Adaptive Finite Element Method for Shape Modification in Optimization of Electric Machines. **2007**, 127, 882-888	1
221	Object-oriented Programming Applied to the Development of Structural Analysis and Optimization Software. **2001**, 23, 269-284	1
220	An improved error analysis of finite element solutions for postbuckled plates. **1991**,	1
219	r-adaptive methods based on element-level error indicators for parallel analysis of plates and shells. **1992**,	0
218	Comparison of different numerical methods for calculating stress intensity factors in analysis of fractured structures. **2018**, 3, 1-12	1
217	Implementation of error control for solving plane problems in linear elasticity by mixed finite elements. **2014**, 7, 73-81	2
216	H-Adaptive Finite Element Methods for Contact Problems. **2000**, 117-141	
215	On the Adaptive Computation of Shear Bands in Frictional Geomaterials. **2000**, 135-142	
214	Finite Element Method. **2000**, 49-87	
213	Implementation of DSC in Computer Procedures. **2000**,	
212	Non-Singular Reciprocity Based BEM/FEM Formulations. **2001**, 173-188	

211   A discretization error estimator associated with the energy domain integral method in linear elastic fracture mechanics. **2001**, 206-210

210   Finite-Element-Methode fÜ FlÜhentragwerke. **2001**, 119-287

209   Modification of Triangulation to Create Regular Mesh. **2001**, 53-58

208   An a Posteriori Error Estimator for Finite Element Approximations of CoulombŠ Friction Problem. **2001**, 685-690

207   Adaptive Finite Element Analysis of Kinematically Non-Linear Elasto-Plastic Problems in Two Dimensions. **2001**, 79-84

206   Efficient analysis of stress singularities using the scaled boundary finite-element method. **2001**, 142-145

205   Superelement based adaptive finite element analysis for linear and nonlinear continua under distributed computing environment. **2001**, 302-305   1

204   Special Topics in Multi-Domain BEM Formulations. **2002**, 41-49

203   3-D Analysis of Hot Forging Processes using the Mesh Compression Method. **2002**, 11, 179-186

202   Design Evaluation of WEDM Based on Deformation Analyses and Axiomatic Design. **2002**, 26, 851-863

201   Applications of an improved estimator of the constitutive relation error to plasticity problems. **2002**, 14, 381-400

200   Anisotropic mesh adaptation method for computational mechanics problems. **2003**, 1925-1928

199   A rational framework for damage analyses of concrete shells. **2003**, 356-359

198   A multilaminate model for finite element analysis of tunnel excavation. **2003**, 353-389

197   A New All-Hexahedral Refinement Technique by Automatic Expansion of Zero Thickness Element Layers. **2003**, 12, 334-339

196   A Posteriori Error Estimation of ℚuantities of Interestℚn ℚuantity-Adaptedℚ Meshes. **2004**, 171-181

195   A Parametric Study of the Hemming Process by Finite Element Analysis. **2004**, 28, 149-157   2

194   Adaptive Delaunay Mesh Generation Technique Based on a Posteriori Error Estimation and a Node Density Map. **2004**, 13, 334-341

175   Numerical Methods in Support of Advanced Tsunami Early Warning. **2013**, 1-18

174   A Residual Type Error Estimate for the Static Coulomb Friction Problem with Unilateral Contact. **2013**, 85-100

173   Bibliography. 227-238

172   Concurrent Approach to Lattice Dynamics Based on Extended Space-Time Finite Element Method. **2013**,

171   Specific Topics. **2014**, 757-808

170   Flow in Variably Saturated Porous Media. **2014**, 445-536   1

169   A Numerical Study of Averaging Error Indicators in p-FEM. **2014**, 227-236

168   Efficient Adaptive Finite Element Mesh Generation for Dynamics. **2013**, 26, 385-392

167   History of the Finite Element Method Mathematics Meets Mechanics Part II: Mathematical Foundation of Primal FEM for Elastic Deformations, Error Analysis and Adaptivity. **2014**, 443-478

166   Indicators of Errors for Approximate Solutions of Differential Equations. **2014**, 7-44

165   A Unified Approach to Measuring Accuracy of Error Indicators. **2014**, 1-22

164   A Simple Adaptive Scheme Based on a New Hybrid FE Model. **1987**, 279-286

163   Integrated Design and Analysis using the Boundary Element Method. **1987**, 549-563

162   Adaptive Techniques in Finite Element Analysis. **1987**, 553-562

161   Improved 5- and 6-Node Plate Elements for Adaptively Refined Mesh Generation. **1988**, 1071-1074

160   BEASY - An Advanced Boundary Element Analysis System. **1988**, 91-102

159   Error Estimates and Automatic Adaptive Mesh Refinement for the Metal Forming FEM Analysis. **1988**, 341-344

158   A High-Precision Adaptive Procedure for Solving Kirchhoff Plates. **1990**, 125-132

139 An Adaptive Control of Spatial-Temporal Discretization Error in Finite Element Analysis of Dynamic Problems. **1996**, 447-462

138 Standardtechniken zur Tragwerksanalyse. **1997**, 251-318

137 Aerodynamic Shape Optimization Using Automatic Adaptive Remeshing. **1997**, 132-151

136 Adaptive Mesh Simulation of Passive Earth Pressure Failure. **1998**, 493-502   0

135 Recovery Procedures in Error Estimation and Adaptivity. **1999**, 1-12

134 Control of Global Relative error of Spatial -Temporal Discretization in Dynamic Analysis. **1999**, 107-114

133 2D Mesh and Geometric Adaptions using an a Priori Model of Mechanical Behaviour. **1999**, 167-174

132 The Zienkiewicz/Zhu Error Estimation Procedure. **1999**, 405-425

131 Integrated Structural Optimization. **1999**, 185-226

130 Self-Adaptive, Parallel Solution Methods for Complex Fem Problems in CFD and Radiation Modelling. **1999**, 449-454

129 Adaptive Methods for Nonlinear FE Analysis of thin-Walled Structures. **1999**, 43-51

128 Multigrid Approach to Adaptive Analysis of B. V. Problems by The Meshless GFDM. **1999**, 173-180

127 Nonlinear Structural Dynamic Analysis by A Discontinuous Galerkin Finite Element Method. **1999**, 115-122

126 ADAPTIVITY IN SPACE-TIME FINITE ELEMENT APPROXIMATIONS. **1999**, 327-333

125 Coupling of adaptive and non-adaptive mesh refinement regions using interface elements. **1999**,

124 Numerical Methods for Bioelectric Field Problems. **1999**,   1

123 Accuracy of the Finite Element Method. **2015**, 69-74

122 An Adaptive Mesh Generation Scheme for the Finite Element Method. **2014**, 14, 43-49   1

103	Goal-oriented A Posteriori Error Estimates in Linearized Elasticity. **2019**, 279-318	
102	Energy Norm A Posteriori Error Estimates. **2019**, 171-278	
101	Moving Least Squares (MLS) Interpolation Based Post-processing Parametric Study in Finite Element Elastic Problems. **2020**, 1235-1252	
100	Local Mesh Refinement for Displacement-Based and Equilibrium-Based Finite Elements. **2022**, 361-369	
99	Turbulent Reactive Flow Modeling in Engines: Simulating Engine Dynamics Using fearce. **2020**, 142,	
98	A dimension-reduction model for brittle fractures on thin shells with mesh adaptivity. **2021**, 31, 37-81	2
97	From image data towards microstructure information Accuracy analysis at the digital core of materials. **2021**, 101,	1
96	Monitoring and controlling electricity consumption using Wemos D1 Mini and smartphone. 909, 012014	
95	Computational homogenization of concrete in the cyber Size-Resolution-Discretization (SRD) parameter space. **2022**, 198, 103653	1
94	Density-Based Inverse Homogenization with Anisotropically Adapted Elements. **2020**, 211-221	2
93	Bayesian Mesh Adaptation for Estimating Distributed Parameters. **2020**, 42, A3878-A3906	
92	Mechanical and geometrical approaches applied to composite fabric forming.	
91	Finite-Element-Methode fï Flïhentragwerke. **2008**, 167-359	
90	h-Adaptive Strategies Applied to Multi-phase Models. **2001**, 81-86	
89	Shear Band Localization in Frictional Geomaterials: Basic Modelling and Adaptive Computations. **2001**, 259-264	
88	Duality Techniques for Error Estimation and Mesh Adaptation in Finite Element Methods. **2005**, 1-58	0
87	Hierarchical Model and Solution Adaptivity of Thin-walled Structures by the Finite-Elements-Method. **2005**, 59-147	0
86	Three Lectures on Error Estimation and Adaptivity. **2005**, 149-193	

| 67 | Multi-Physics Inverse Homogenization for the Design of Innovative Cellular Materials: Application to Thermo-Elastic Problems. **2022**, 27, 15 | |

| 66 | About the Force of Electrostatic Interaction between Two Conducting Discs. **2022**, 58, 75-81 | |

| 65 | Stress Concentration Factors in Excavation Repairs of Surface Defects in Forgings and Castings.. **2022**, 15, | |

| 64 | Comparison of meshfree displacement and stress error recovery of finite element solutions using moving least squares interpolation. **2022**, 14, 168781322210854 | |

| 63 | Adaptivity for clustering-based reduced-order modeling of localized history-dependent phenomena. **2022**, 393, 114726 | 0 |

| 62 | On mesh refinement procedures for the virtual element method for two-dimensional elastic problems. **2022**, 393, 114849 | 0 |

| 61 | Investigation of the compression⊠shear fracture propagation for rocks accounting for confining pressure and crack surface friction. **2022**, 103346 | 0 |

| 60 | Insight into High-temperature Ignition Processes of Methane⊠425 Mixtures at Various Methane Contents: Experimental and Chemical Kinetic Analysis. 1-18 | 0 |

| 59 | An Automatic Adaptive Edge-based Smoothed Point Interpolation Method for Coupled Flow-Deformation Analysis of Saturated Porous Media. **2022**, 145, 104672 | 0 |

| 58 | Parallel domain discretization algorithm for RBF-FD and other meshless numerical methods for solving PDEs. **2022**, 264, 106773 | 1 |

| 57 | A Posteriori Error Estimates of Spectral Approximations for Second Order Partial Differential Equations in Spherical Geometries. **2022**, 90, 1 | 0 |

| 56 | An hp-version adaptive finite element algorithm for eigensolutions of moderately thick circular cylindrical shells via error homogenisation and higher-order interpolation. **2021**, ahead-of-print, | 1 |

| 55 | Using a Digital Twin of an Electrical Stimulation Device to Monitor and Control the Electrical Stimulation of Cells .. **2021**, 9, 765516 | 0 |

| 54 | Identity for Deviations from the Exact Solution of the Problem $$Lambda {text{*}}mathcal{A}Lambda u + ell = 0$$ and Its Implications. **2021**, 61, 1943-1965 | 0 |

| 53 | An Anisotropic Recovery-Based Error Estimator for Adaptive Discontinuous Galerkin Methods. **2022**, 90, 1 | 1 |

| 52 | L2-Norm Based a Posteriori Error Estimates of Compressible and Nearly-Incompressible Elastic Finite Element Solutions. **2022**, 12, 3999 | |

| 51 | Sustainable computational mechanics assisted by deep learning. **2022**, 115025 | |

| 50 | Mesh Adaptivity in the Framework of the Cartesian Grid Finite Element Method, cgFEM. **2022**, 157-181 | |

49	Anisotropic Adaptive Finite Elements for an Elliptic Problem with Strongly Varying Diffusion Coefficient. **2022**,	
48	Energy-Based Error Bound of Physics-Informed Neural Network Solutions in Elasticity. **2022**, 148,	
47	Adaptive workflow for simulation of RF heaters. **2022**, 108434	
46	Superconvergent Pseudostress-Velocity Finite Element Methods for the Oseen Equations. **2022**, 92,	
45	Sequential topology and shape optimization framework to design compliant mechanisms with boundary stress constraints. **2022**, 65,	
44	A multi-criteria h-adaptive finite-element framework for industrial part-scale thermal analysis in additive manufacturing processes.	2
43	Polynomial preserving recovery and a posteriori error estimates for the two-dimensional quad-curl problem. **2022**,	
42	A Mixed Finite Element Formulation for Elastoplasticity. *International Journal for Numerical Methods in Engineering*,	2.4
41	Anisotropic mesh adaptation for region-based segmentation accounting for image spatial information. **2022**, 121, 1-17	0
40	One step forward towards the full integration of BEM and CAD software: An effective adaptive approach. **2022**, 143, 457-482	0
39	A probabilistic data assimilation framework to reconstruct finite element error fields from sparse error estimates: Application to sub-modeling.	
38	Fully automatic multigrid adaptive mesh refinement strategy with controlled accuracy for nonlinear quasi-static problems. **2022**, 400, 115505	0
37	A new fluid-based strategy for the connection of non-matching lattice materials. **2022**, 65,	0
36	Two multifidelity kriging-based strategies to control discretization error in reliability analysis exploiting a priori and a posteriori error estimators. **2022**, 106897	0
35	Patient-Specific Bone Organ Modeling Using CT Based FEM. **2022**, 125-139	0
34	A posteriori error estimations and convergence criteria in fast Fourier transform-based computational homogenization.	0
33	A posteriori error estimates for hierarchical mixed-dimensional elliptic equations. **2022**,	1
32	Improvement of Finite Element Solutions with Deep Learning. **2023**, 139-166	0

| 31 | Smart Cloud Collocation: Geometry-Aware Adaptivity Directly From CAD. **2023**, 154, 103409 | o |

| 30 | Grid Generation and Algebraic Solvers. **2023**, 1383-1411 | o |

| 29 | Z2-□An Application of Zienkiewicz-Zhu Error Estimator to Brain Tumor Detection in MR Images. **2022**, 8, 301 | o |

| 28 | Adaptive Finite Element Analysis. **2022**, 381-404 | o |

| 27 | An adaptive damage smear method for modelling the meso-fracturing process of rock. **2023**, 277, 109003 | o |

| 26 | Hierarchical a posteriori error estimation of Bank□Weiser type in the FEniCS Project. **2023**, 131, 103-123 | o |

| 25 | An enhanced extended isogeometric analysis with strong imposition of essential boundary conditions for crack problems using B++ splines. **2023**, 116, 393-414 | o |

| 24 | Estimation of Pointwise Approximation Error Using a Set of Numerical Solutions. **2022**, 15, 281-292 | o |

| 23 | On the derivation of a component-free scheme for Lagrangian fluid□structure interaction problems. | o |

| 22 | Mesh-Free Methods with Special Focus on EFGM. **2023**, 593-654 | o |

| 21 | Uncertainty Propagation of Structural Computation for Fatigue Assessment. **2022**, 21, 55-66 | o |

| 20 | Adaptive Load Incremental Step in Large Increment Method for Elastoplastic Problems. **2023**, 11, 524 | o |

| 19 | An Adaptive Degree of Freedom Condensation Algorithm for Simulating Transient Temperature, Applied to an Asphalt-Concrete Core Wall. **2023**, 13, 1456 | o |

| 18 | A Custom Arc-length Finite Element Solver for Large Deformation Adhesive Contacts using a k-d Tree Accelerated Volumetric Interaction Scheme. | o |

| 17 | T-Splines for Isogeometric Analysis of the Large Deformation of Elastoplastic Kirchhoff□Love Shells. **2023**, 13, 1709 | o |

| 16 | A Posteriori Error Estimates for Isogeometric Analysis of the Stokes Equation. | o |

| 15 | An improved local error estimate in ́adaptive finite element analysis based on element energy projection technique. **2023**, 40, 246-264 | o |

| 14 | Enhancing level set-based topology optimization with anisotropic graded meshes. **2023**, 447, 127903 | o |

13	Experimental and numerical methods to ensure comprehensible and replicable alternating current electrical stimulation experiments. **2023**, 151, 108395	0
12	Application of the ps⃗Version of the Finite Element Method to the Analysis of Laminated Shells. **2023**, 16, 1395	0
11	Parallel simulations for fast-moving landslides: Space-time mesh adaptation and sharp tracking of the wetting front.	0
10	Two-Level Error Estimation for the Integral Fractional Laplacian. **2023**,	0
9	Stress Distributions in Brazed Single-Lap Joints Under Tensile Loading. **2023**, 54, 1116-1130	0
8	Adaptive Finite Element Analysis of Stability of Rectangular Cavern. **2022**,	0
7	Nodal Accuracy Improvement Technique for Linear Elements with Application to Adaptivity. **2023**, 13, 2844	0
6	Gradient recovery based a posteriori error estimator for the adaptive direct discontinuous Galerkin method. **2023**, 60,	0
5	Recovery by discretization corrected particle strength exchange (DC PSE) operators. **2023**, 448, 127923	0
4	Higher-Order Hexahedral Finite Elements for Structural Dynamics: A Comparative Review. **2023**, 11, 326	0
3	A CAD-aware plug-and-play topology optimization framework using moments. **2023**, 66,	0
2	Adaptive VEM: Stabilization-Free A Posteriori Error Analysis and Contraction Property. **2023**, 61, 457-494	0
1	Recovery strategies, a posteriori error estimation, and local error indication for second-order G/XFEM and FEM.	0