

Sandrine de Ribaupierre

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

2,404
citations

218381

26
h-index

243296

44
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121
all docs

121
docs citations

121
times ranked

3746
citing authors

#	ARTICLE	IF	CITATIONS
1	â€ˆDIGITSâ€™™ app - smartphone augmented reality for hand telerehabilitation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 375-382.	1.3	1
2	Automated 3D Uâ€™net based segmentation of neonatal cerebral ventricles from 3D ultrasound images. Medical Physics, 2022, 49, 1034-1046.	1.6	6
3	Extraoperative electrical stimulation mapping in epilepsy presurgical evaluation: a proposal and review of the literature. Clinical Neurology and Neurosurgery, 2022, 214, 107170.	0.6	6
4	Brain Network Connectivity and Executive Function in Children with Infantile Hydrocephalus. Brain Connectivity, 2022, 12, 784-798.	0.8	3
5	CNN-Aided Factor Graphs with Estimated Mutual Information Features for Seizure Detection. , 2022, , .		3
6	Presurgical brain mapping of the language network in pediatric patients with epilepsy using resting-state fMRI. Journal of Neurosurgery: Pediatrics, 2021, 27, 259-268.	0.8	6
7	Does ventricular volume affect the neurodevelopmental outcome in infants with intraventricular hemorrhage?. Child's Nervous System, 2020, 36, 569-575.	0.6	13
8	Perfusion and Metabolic Neuromonitoring during Ventricular Taps in Infants with Post-Hemorrhagic Ventricular Dilatation. Brain Sciences, 2020, 10, 452.	1.1	20
9	Vagus nerve stimulation in patients with therapy-resistant generalized epilepsy. Epilepsy and Behavior, 2020, 111, 107253.	0.9	19
10	Cranial and ventricular size following shunting or endoscopic third ventriculostomy (ETV) in infants with aqueductal stenosis: further insights from the International Infant Hydrocephalus Study (IIHS). Child's Nervous System, 2020, 36, 1407-1414.	0.6	15
11	Fetal Response to a Maternal Internal Auditory Stimulus. Journal of Magnetic Resonance Imaging, 2020, 52, 139-145.	1.9	14
12	Does the Head Position Affect Neonatal Lateral Ventricular Volume?. American Journal of Perinatology, 2020, , .	0.6	2
13	Moderating Effect of Cortical Thickness on BOLD Signal Variability Age-Related Changes. Frontiers in Aging Neuroscience, 2019, 11, 46.	1.7	17
14	Use of a radial artery â€™slenderâ€™™ sheath for facilitating transfemoral arterial access for neuroendovascular embolization in a very young infant. Interventional Neuroradiology, 2019, 25, 353-356.	0.7	3
15	Leap Motion Performance in an Augmented Reality Workspace: Integrating Devices with an Interactive Platform. IEEE Consumer Electronics Magazine, 2019, 8, 36-41.	2.3	4
16	Novel connectivity map normalization procedure for improved quantitative investigation of structural thalamic connectivity in temporal lobe epilepsy patients. Journal of Magnetic Resonance Imaging, 2018, 48, 1529-1539.	1.9	2
17	An Investigation of Head Motion and Perceptual Motion Cues' Influence on User Depth Perception of Augmented Reality Neurosurgical Simulators. , 2018, , .		1
18	Quantitative 3-D head ultrasound measurements of ventricle volume to determine thresholds for preterm neonates requiring interventional therapies following posthemorrhagic ventricle dilatation. Journal of Medical Imaging, 2018, 5, 1.	0.8	10

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19	Validation of a Hyperspectral NIRS Method for Measuring Oxygen Saturation by Comparison to Time-Resolved NIRS . , 2018, , .		1
20	Automated registration and stitching of multiple 3D ultrasound images for monitoring neonatal intraventricular hemorrhage. , 2018, , .		0
21	Visual Perception and Humanâ€“Computer Interaction in Surgical Augmented and Virtual Reality Environments. , 2018, , 83-98.		4
22	Evaluating Affordable Cranial Ultrasonography in East African Neonatal Intensive Care Units. Ultrasound in Medicine and Biology, 2017, 43, 119-128.	0.7	6
23	Development of augmented reality training simulator systems for neurosurgery using model-driven software engineering. , 2017, , .		9
24	Real-time interactive tractography analysis for multimodal brain visualization tool: MultiXplore. Proceedings of SPIE, 2017, , .	0.8	1
25	Investigating the effects of cerebrospinal fluid removal on cerebral blood flow and oxidative metabolism in infants with post-hemorrhagic ventricular dilatation. Pediatric Research, 2017, 82, 634-641.	1.1	12
26	Longitudinal Analysis of Pre-Term Neonatal Cerebral Ventricles From 3D Ultrasound Images Using Spatial-Temporal Deformable Registration. IEEE Transactions on Medical Imaging, 2017, 36, 1016-1026.	5.4	8
27	Treatment of abdominal pseudocysts and associated ventricuoperitoneal shunt failure. Child's Nervous System, 2017, 33, 2087-2093.	0.6	8
28	MultiXplore: Visual exploration platform for multimodal neuroimaging data. Journal of Neuroscience Methods, 2017, 290, 1-12.	1.3	4
29	The incidence and management of non-head and neck incidentalomas for the head and neck surgeon. Oral Oncology, 2017, 74, 98-104.	0.8	2
30	Investigation of hippocampal substructures in focal temporal lobe epilepsy with and without hippocampal sclerosis at 7T. Journal of Magnetic Resonance Imaging, 2017, 45, 1359-1370.	1.9	43
31	Automatic segmentation approach to extracting neonatal cerebral ventricles from 3D ultrasound images. Medical Image Analysis, 2017, 35, 181-191.	7.0	38
32	Design and evaluation of an augmented reality simulator using leap motion. Healthcare Technology Letters, 2017, 4, 210-215.	1.9	19
33	Editorial: Challenges for the usability of AR and VR for clinical neurosurgical procedures. Healthcare Technology Letters, 2017, 4, 151-151.	1.9	21
34	Multimodal connectivity based eloquence score computation and visualisation for computerâ€“aided neurosurgical path planning. Healthcare Technology Letters, 2017, 4, 152-156.	1.9	3
35	In vivo <scp>MRI</scp> signatures of hippocampal subfield pathology in intractable epilepsy. Human Brain Mapping, 2016, 37, 1103-1119.	1.9	61
36	Preterm neonatal lateral ventricle volume from three-dimensional ultrasound is not strongly correlated to two-dimensional ultrasound measurements. Journal of Medical Imaging, 2016, 3, 046003.	0.8	6

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37	InÂVivo Validation of a 3-D Ultrasound System for Imaging the Lateral Ventricles of Neonates. Ultrasound in Medicine and Biology, 2016, 42, 971-979.	0.7	19
38	Thrive or overload? The effect of task complexity on novicesâ€™ simulation-based learning. Medical Education, 2016, 50, 955-968.	1.1	70
39	Quantitative head ultrasound measurements to determine thresholds for preterm neonates requiring interventional therapies following intraventricular hemorrhage. Proceedings of SPIE, 2016, , .	0.8	1
40	Evaluation of an online three-dimensional interactive resource for undergraduate neuroanatomy education. Anatomical Sciences Education, 2016, 9, 431-439.	2.5	56
41	Individual feature maps: a patient-specific analysis tool with applications in temporal lobe epilepsy. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 53-71.	1.7	1
42	Augmented Reality for Neurosurgical Guidance: An Objective Comparison of Planning Interface Modalities. Lecture Notes in Computer Science, 2016, , 233-243.	1.0	1
43	An Examination of Metrics for a Simulated Ventriculostomy Part-Task. Studies in Health Technology and Informatics, 2016, 220, 29-32.	0.2	0
44	VR and AR simulator for neurosurgical training. , 2015, , .		8
45	A framework for quantification and visualization of segmentation accuracy and variability in 3D lateral ventricle ultrasound images of preterm neonates. Medical Physics, 2015, 42, 6387-6405.	1.6	1
46	Measuring cognitive load: performance, mental effort and simulation task complexity. Medical Education, 2015, 49, 815-827.	1.1	81
47	Training for Planning Tumour Resection: Augmented Reality and Human Factors. IEEE Transactions on Biomedical Engineering, 2015, 62, 1466-1477.	2.5	65
48	Measuring cognitive load during simulation-based psychomotor skills training: sensitivity of secondary-task performance and subjective ratings. Advances in Health Sciences Education, 2015, 20, 1237-1253.	1.7	34
49	Evidence of ventricular contamination of the optical signal in preterm neonates with post hemorrhagic ventricle dilation. , 2015, , .		1
50	Quantification of cerebral ventricle volume change of preterm neonates using 3D ultrasound images. , 2015, , .		1
51	Collaborative table-top VR display for neurosurgical planning. , 2015, , .		2
52	3D MR ventricle segmentation in pre-term infants with post-hemorrhagic ventricle dilation. Proceedings of SPIE, 2015, , .	0.8	0
53	Characterization of neonatal patients with intraventricular hemorrhage using 3D ultrasound cerebral ventricle volumes. , 2015, , .		1
54	Vertebroplasty Performance on Simulator for 19 Surgeons Using Hierarchical Task Analysis. IEEE Transactions on Medical Imaging, 2015, 34, 1730-1737.	5.4	21

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55	Registration of in-vivo to ex-vivo MRI of surgically resected specimens: A pipeline for histology to in-vivo registration. <i>Journal of Neuroscience Methods</i> , 2015, 241, 53-65.	1.3	29
56	Magnetic resonance imaging and histology correlation in the neocortex in temporal lobe epilepsy. <i>Annals of Neurology</i> , 2015, 77, 237-250.	2.8	43
57	Overlapping neural circuits for visual attention and eye movements in the human cerebellum. <i>Neuropsychologia</i> , 2015, 69, 9-21.	0.7	40
58	User-Guided Segmentation of Preterm Neonate Ventricular System from 3-D Ultrasound Images Using Convex Optimization. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 542-556.	0.7	26
59	Teaching for the Transition: the Canadian PCY-1 Neurosurgery "Rookie Camp"™. <i>Canadian Journal of Neurological Sciences</i> , 2015, 42, 25-33.	0.3	13
60	3D MR ventricle segmentation in pre-term infants with post-hemorrhagic ventricle dilatation (PHVD) using multi-phase geodesic level-sets. <i>NeuroImage</i> , 2015, 118, 13-25.	2.1	19
61	Operationalising elaboration theory for simulation instruction design: a Delphi study. <i>Medical Education</i> , 2015, 49, 576-588.	1.1	19
62	Visual Enhancement of MR Angiography Images to Facilitate Planning of Arteriovenous Malformation Interventions. <i>ACM Transactions on Applied Perception</i> , 2015, 12, 1-15.	1.2	5
63	Automatic 3D US Brain Ventricle Segmentation in Pre-Term Neonates Using Multi-phase Geodesic Level-Sets with Shape Prior. <i>Lecture Notes in Computer Science</i> , 2015, , 89-96.	1.0	1
64	Longitudinal Analysis of Pre-term Neonatal Brain Ventricle in Ultrasound Images Based on Convex Optimization. <i>Lecture Notes in Computer Science</i> , 2015, , 476-483.	1.0	1
65	Endoscopic neurosurgery simulation: Implementation on the evolution engine. , 2014, , .		0
66	Surgical simulation workflow representation using hierarchical task analysis and statecharts: Implementation on the evolution engine. , 2014, , .		0
67	Motion magnification for endoscopic surgery. <i>Proceedings of SPIE</i> , 2014, , .	0.8	12
68	Hybrid simulation of brain-skull growth. <i>Simulation</i> , 2014, 90, 3-10.	1.1	10
69	Quantitative relaxometry and diffusion MRI for lateralization in MTS and non-MTS temporal lobe epilepsy. <i>Epilepsy Research</i> , 2014, 108, 506-516.	0.8	20
70	A software system for evaluation and training of spatial reasoning and neuroanatomical knowledge in a virtual environment. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 114, 29-37.	2.6	5
71	In vivo validation of a 3D ultrasound system for imaging the lateral ventricles of neonates. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
72	Healthcare Training Enhancement Through Virtual Reality and Serious Games. <i>Intelligent Systems Reference Library</i> , 2014, , 9-27.	1.0	48

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73	Monitoring Cerebral Blood Flow in Preterm Infants with Post-Hemorrhagic Hydrocephalus. , 2014, , .		0
74	Cerebral Ventricle Segmentation from 3D Pre-term IVH Neonate MR Images Using Atlas-Based Convex Optimization. Lecture Notes in Computer Science, 2014, , 46-54.	1.0	0
75	Patient-specific pipeline to create virtual endoscopic third ventriculostomy scenarios. Studies in Health Technology and Informatics, 2014, 196, 14-6.	0.2	3
76	Evaluation of a mobile augmented reality application for image guidance of neurosurgical interventions. Studies in Health Technology and Informatics, 2014, 196, 204-8.	0.2	12
77	Image registration of ex-vivo MRI to sparsely sectioned histology of hippocampal and neocortical temporal lobe specimens. NeuroImage, 2013, 83, 770-781.	2.1	36
78	Use of a Mixed-Reality System to Improve the Planning of Brain Tumour Resections: Preliminary Results. Lecture Notes in Computer Science, 2013, , 55-66.	1.0	3
79	Development of a 3D ultrasound system to investigate post-hemorrhagic hydrocephalus in pre-term neonates. , 2013, , .		3
80	Needs assessment for simulation training in neuroendoscopy: a Canadian national survey. Journal of Neurosurgery, 2013, 118, 250-257.	0.9	38
81	3D ultrasound system to investigate intraventricular hemorrhage in preterm neonates. Physics in Medicine and Biology, 2013, 58, 7513-7526.	1.6	36
82	Pituitary Abscess: Review and Highlight of a Case Mimicking Pituitary Apoplexy. Canadian Journal of Neurological Sciences, 2013, 40, 743-745.	0.3	5
83	Cognitive Intraindividual Variability and White Matter Integrity in Aging. Scientific World Journal, The, 2013, 2013, 1-16.	0.8	26
84	The Role of Augmented Reality in Training the Planning of Brain Tumor Resection. Lecture Notes in Computer Science, 2013, , 241-248.	1.0	10
85	Functional Magnetic Resonance Imaging for Language Mapping in Temporal Lobe Epilepsy. Epilepsy Research & Treatment, 2012, 2012, 1-8.	1.4	17
86	Neurosurgical management of frontal lobe epilepsy in children. Journal of Neurosurgery: Pediatrics, 2012, 10, 206-216.	0.8	18
87	Exploration of fused multi-volume images using user-defined binary masks. , 2012, , .		0
88	Using motion capture to manipulate and edit meshes. , 2012, , .		0
89	Consensus definitions of complications for accurate recording and comparisons of surgical outcomes in pediatric neurosurgery. Journal of Neurosurgery: Pediatrics, 2012, 10, 89-95.	0.8	14
90	Language Mapping in Temporal Lobe Epilepsy in Children: Special Considerations. Epilepsy Research & Treatment, 2012, 2012, 1-11.	1.4	15

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91	Robust registration of sparsely sectioned histology to ex-vivo MRI of temporal lobe resections. , 2012, , ,		0
92	Perceptual enhancement of arteriovenous malformation in MRI angiography displays. , 2012, , ,		5
93	Unusual presentation of Chiari I in toddlers: case reports and review of the literature. Child's Nervous System, 2012, 28, 1965-1970.	0.6	13
94	Construction of a 3-D anatomical model for teaching temporal lobectomy. Computers in Biology and Medicine, 2012, 42, 692-696.	3.9	22
95	Presurgical language mapping in children with epilepsy: Clinical usefulness of functional magnetic resonance imaging for the planning of cortical stimulation. Epilepsia, 2012, 53, 67-78.	2.6	40
96	Evaluation of neuroanatomical training using a 3D visual reality model. Studies in Health Technology and Informatics, 2012, 173, 85-91.	0.2	38
97	Trauma and Impaired Consciousness. Neurologic Clinics, 2011, 29, 883-902.	0.8	3
98	Does stereo-endoscopy improve neurosurgical targeting in 3rd ventriculostomy?. , 2011, , ,		1
99	Current concepts and management of glioblastoma. Annals of Neurology, 2011, 70, 9-21.	2.8	380
100	Blister-Like Supraclinoid Internal Carotid Artery Pseudoaneurysm in a 15-Year-Old Male: Case Report and Review of the Literature. Pediatric Neurosurgery, 2011, 47, 449-454.	0.4	13
101	Category Naming Effects during Intraoperative Language Mapping. Procedia, Social and Behavioral Sciences, 2010, 6, 90-91.	0.5	0
102	Cerebellar lesions: is there a lateralisation effect on memory deficits?. Acta Neurochirurgica, 2008, 150, 545-550.	0.9	37
103	Hemispherotomy and other disconnective techniques. Neurosurgical Focus, 2008, 25, E14.	1.0	149
104	Cervical Nerve Root Synovial Sarcoma in a Child with Chromosomal (X;18) Translocation. Pediatric Neurosurgery, 2007, 43, 382-385.	0.4	12
105	SUBPENDYMAL GIANT-CELL ASTROCYTOMAS IN PEDIATRIC TUBEROUS SCLEROSIS DISEASE. Neurosurgery, 2007, 60, 83-90.	0.6	126
106	Third ventriculostomy vs ventriculoperitoneal shunt in pediatric obstructive hydrocephalus: results from a Swiss series and literature review. Child's Nervous System, 2007, 23, 527-533.	0.6	94
107	Frontosphenoidal synostosis: a rare cause of unilateral anterior plagiocephaly. Child's Nervous System, 2007, 23, 1431-1438.	0.6	32
108	Meningeal solitary fibrous tumour in a child. Child's Nervous System, 2006, 22, 619-622.	0.6	9

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109	Listeria brain abscess, Pneumocystis pneumonia and Kaposi's sarcoma after temozolomide. Nature Clinical Practice Oncology, 2006, 3, 339-343.	4.3	41
110	The role of posterior fossa decompression in acute cerebellitis. Child's Nervous System, 2005, 21, 970-974.	0.6	44
111	Negative neurofunctional effects of frequency, depth and environment in recreational scuba diving: the Geneva "memory dive" study. British Journal of Sports Medicine, 2004, 38, 108-114.	3.1	27
112	Contralateral frontal and cerebellar haemorrhages after peri-insular hemispherotomy. Acta Neurochirurgica, 2004, 146, 743-4.	0.9	5
113	Mapping of Structure-Function Age-Related Connectivity Changes on Cognition Using Multimodal MRI. Frontiers in Aging Neuroscience, 0, 14, .	1.7	3