## Piergiulio Tempesta

## List of Publications by Year in descending order

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1 Exact solvability of superintegrable systems. Journal of Mathematical Physics, 2001, 42, 4248-4257.

Group entropies, correlation laws, and zeta functions. Physical Review E, 2011, 84, 021121.
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Superintegrable systems in quantum mechanics and classical Lie theory. Journal of Mathematical
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Fractional Calculus and Applied Analysis, 2017, 20, 212-231.

On Appell sequences of polynomials of Bernoulli and Euler type. Journal of Mathematical Analysis and
$7 \quad$ Applications, 2008, 341, 1295-1310.

Beyond the Shannonâ€"Khinchin formulation: The composability axiom and the universal-group entropy.
Annals of Physics, 2016, 365, 180-197.

Formal groups, Bernoulli-type polynomials and L-series. Comptes Rendus Mathematique, 2007, 345,
303-306.

Finding frequent items in parallel. Concurrency Computation Practice and Experience, 2011, 23,
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Symmetry reduction and superintegrable Hamiltonian systems. Journal of Physics: Conference Series,
2009, 175, 012013.

Uniqueness and characterization theorems for generalized entropies. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 123101.

Vortices and invariant surfaces generated by symmetries for the 3D Navierâ€"Stokes equations. Physica
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A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution. Information
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Statistical mechanics of exploding phase spaces: ontic open systems. Journal of Physics A:
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On the Relation between Lie Symmetries and Prolongation Structures of Nonlinear Field Equations:
Non-Local Symmetries. Progress of Theoretical Physics, 2001, 105, 77-97.

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Engineering Sciences, 2016, 472, 20160143.

Generalized isotropic Lipkinâ€"Meshkovâ€"Glick models: ground state entanglement and quantum
entropies. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 033114.

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19 Group Entropies: From Phase Space Geometry to Entropy Functionals via Group Theory. Entropy, 2018,
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20 Weak transversality and partially invariant solutions. Journal of Mathematical Physics, 2003, 44, 2704.
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21 Lorentz and Galilei invariance on lattices. Physical Review D, 2004, 69, . ..... 4.7 ..... 17

A theorem on the existence of symmetries of fractional PDEs. Comptes Rendus Mathematique, 2014, 352, 219-222.
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from weak to strong chaos. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010,
P04021.
A new class of entropic information measures, formal group theory and information geometry.
26 Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 4720180633.
$27 \quad \begin{aligned} & \text { Universality Classes and Inf } \\ & \text { Reports, 2020, 10, } 5952 .\end{aligned}$3.311
$28 \quad \begin{aligned} & \text { A group analysis of the 2D Navierâ } \\ & \text { Applications, 2001, 293, 421-434. }\end{aligned}$ ..... 2.6 ..... 10
29 A theorem on the existence of trace-form generalized entropies. Proceedin
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30 Complexity-based permutation entropies: From deterministic time series to white noise3.310
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Non-Maxwellian behavior and quasistationary regimes near the modal solutions of the
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$31 \quad$ Fermi-Pasta-Ulam²²system. Physical Review E, 2012, 85, 031149.

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33 Groups, information theory, and Einstein's likelihood principle. Physical Review E, 2016, 93, 040101. ..... 2.1 ..... 9
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[^0]Hyperfunctions, formal groups and generalized Lipschitz summation formulas. Nonlinear Analysis:
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$42 \quad$| Haantjes algebras of classical integrable systems. Annali Di Matematica Pura Ed Applicata, 2022, 201, |
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43 Higher Haantjes Brackets and Integrability. Communications in Mathematical Physics, 0, , 1. 4

| 45 | Discretization of nonlinear evolution equations over associative function algebras. Nonlinear Analysis: Theory, Methods \& Applications, 2010, 72, 3237-3246. | 1.1 | 3 |
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| 46 | On the high energy stability of the nonlinear modal solutions for the Fermiâ€"Pastaâ€"Ulam 12 system. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03003. | 2.3 | 3 |
| 47 | Integrable maps from Galois differential algebras, Borel transforms and number sequences. Journal of Differential Equations, 2013, 255, 2981-2995. | 2.2 | 3 |
| 48 | A non-Boltzmannian behavior of the energy distribution for quasi-stationary regimes of the Fermiâ€"Pastaâ€"Ulam system. Annals of Physics, 2013, 333, 12-18. | 2.8 | 3 |
| 49 | Classical multiseparable Hamiltonian systems, superintegrability and Haantjes geometry. Communications in Nonlinear Science and Numerical Simulation, 2022, 104, 106021. | 3.3 | 3 |

50 Bipartite and directed scale-free complex networks arising from zeta functions. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2493-2504.

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Processing, 2021, 20, 1.
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[^0]:    On the robustness of the <mml:math xmlns:mml="http:/|www.w3.org/1998/Math/MathML"
    35 altimg="si38.gif" display="inline" overflow="scroll"> [mml:mi](mml:mi)q</mml:mi></mml:math >-Gaussian

