

Όμηρος Ράγγος **Βιογραφικό σημείωμα**

1. Σπουδές

Πτυχιούχος Μαθηματικών, Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών, 1981

Διδάκτωρ Μαθηματικών, Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών, 1989

2. Ακαδημαϊκές θέσεις

Τομέας Υπολογιστικών Μαθηματικών και Πληροφορικής, Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών

Λέκτορας 1995-2001

Επίκουρος Καθηγητής (επί θητεία) 2001-2004

Επίκουρος Καθηγητής (μόνιμος) 2004-

Τομέας Υπολογιστικών Μαθηματικών και Πληροφορικής, Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών

3. Διδακτική εμπειρία

3.1. Διδασκόμενα και διδαχθέντα μαθήματα

Προπτυχιακά μαθήματα

Διδασκόμενα

Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών

- Εισαγωγή στους Υπολογιστές και τον Προγραμματισμό με Fortran
- Αντικειμενοστρεφής Προγραμματισμός με C++
- Μαθηματικές Θεμελιώσεις της Θεωρίας Υπολογισμού

Ελληνικό Ανοικτό Πανεπιστήμιο, Σχολή Θετικών Επιστημών και Τεχνολογίας, Προπτυχιακό Πρόγραμμα «Πληροφορική»

- Μαθηματικά για Πληροφορική I

Διδαχθέντα

Τμήμα Μαθηματικών, Πανεπιστήμιο Πατρών

- Γλώσσες Προγραμματισμού II (Ταυτοχρονισμένος Προγραμματισμός με Ada)
- Λογικός Προγραμματισμός

Μεταπτυχιακά μαθήματα

Διδασκόμενα

ΠΜΣ «Μαθηματικά και Σύγχρονες Εφαρμογές»

- Λογική και Λογικός Προγραμματισμός

Διδαχθέντα

ΠΜΣ «Μαθηματικά των Υπολογιστών και των Αποφάσεων»

- Υπολογιστικά Μαθηματικά και Εφαρμογές

3.2. Διδακτικά συγγράμματα

- Όμηρος Ράγγος, «Αντικειμενοστρεφής Προγραμματισμός» με C++, Πανεπιστημιακές Παραδόσεις, Πανεπιστήμιο Πατρών, 2018 (σελίδες 202).
- Όμηρος Ράγγος, «Λογικός Προγραμματισμός και Prolog», Πανεπιστημιακές Παραδόσεις, Πανεπιστήμιο Πατρών, 2006 (σελίδες 110).
- Όμηρος Ράγγος, «Γλώσσες Προγραμματισμού II» (Ταυτοχρονισμένος Προγραμματισμός με Ada – Χειρισμός Εξαιρέσεων στην C++ και την Ada – Συναρτησιακός Προγραμματισμός με την LISP), Πανεπιστημιακές Παραδόσεις, Πανεπιστήμιο Πατρών, 2000 (σελίδες 243).
- Μωϋσής Μπουντουρίδης και Όμηρος Ράγγος, «Μαθηματικές Θεμελιώσεις της Θεωρίας Υπολογισμού», Πανεπιστημιακές Παραδόσεις, Πανεπιστήμιο Πατρών, 2014 (σελίδες 185).
- Όμηρος Ράγγος, «Γραμμική Άλγεβρα – Λογισμός μιας Μεταβλητής – Πιθανότητες», Σημειώσεις για την ΘΕ ΠΛΗ12, Ελληνικό Ανοικτό Πανεπιστήμιο, 2015 (σελίδες 352).

4. Ερευνητική Δραστηριότητα

4.1. Δημοσιεύσεις σε διεθνή περιοδικά και συνέδρια

Δημοσιεύσεις σε διεθνή περιοδικά

- [J1] O. Ragos and C. Zagouras,
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1988, Earth, Moon, and Planets, **41**, pp.257-278.
- [J2] O. Ragos and C. Zagouras,
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1988, Celestial Mechanics, **44**, pp.135-154.
- [J3] O. Ragos and C. Zagouras,
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three-body problem: Sun-Jupiter case,
1991, Celestial Mechanics, **50**, pp.325-347.
- [J4] O. Ragos, C.G. Zagouras and E. Perdios,
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problem of three bodies,
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1991, Celestial Mechanics and Dynamical Astronomy, **51**, pp.349-362.
- [J6] O. Ragos and C.G. Zagouras,
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three-body problem,
1993, Astrophysics and Space Science, **209**, pp.267-271.
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of the photogravitational restricted three-body problem: I. Coplanar case,
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- [J8] O. Ragos and F.A. Zafiropoulos and M.N. Vrahatis,
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of the photogravitational restricted three-body problem: II. Out of plane case,

- 1995, *Astronomy and Astrophysics*, **300**, pp.579-590.
- [J9] M.N. Vrahatis, O. Ragos, T. Skiniotis, F.A. Zafiropoulos and T.N. Grapsa, RFSFNS: A portable package for the numerical determination of the number and the calculation of roots of Bessel functions, 1995, *Computer Physics Communications*, **92**, pp.252-266.
- [J10] L. Drossos, O. Ragos, M.N. Vrahatis and T. Bountis, Method for computing long periodic orbits of dynamical systems, 1995, *Physical Review E*, **53(1)**, pp.1206-1211.
- [J11] M.N. Vrahatis, O. Ragos, F.A. Zafiropoulos and T.N. Grapsa, Locating and computing zeros of Airy functions, 1996, *Zeitschrift für Angewandte Mathematik und Mechanik*, **76**, pp.419-422.
- [J12] C.G. Zagouras, E. Perdios and O. Ragos, New kinds of asymmetric periodic orbits in the restricted three-body problem, 1996, *Astrophysics and Space Science*, **240**, pp.273-293.
- [J13] M.N. Vrahatis, T.N. Grapsa, O. Ragos and F.A. Zafiropoulos, On the localization and computation of zeros of Bessel functions, 1997, *Zeitschrift für Angewandte Mathematik und Mechanik*, **77(6)**, pp.467-475.
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- [J15] O. Ragos, K.E. Papadakis and C.G. Zagouras, Stability regions and quasi-periodic motion in the vicinity of triangular equilibrium points, 1997, *Celestial Mechanics and Dynamical Astronomy*, **67**, pp.251-274.
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- [J23] I. Haranas and O. Ragos, Yukawa-type effects in satellite dynamics,

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Δημοσιεύσεις σε πρακτικά διεθνών συνεδρίων

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- [P2] O. Ragos and C.G. Zagouras,
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1995, 3rd International Colloquium on Numerical Analysis: Invited Lectures and Short Communications (1994, Plovdiv, Bulgaria), edited by D. Bainov and A. Dishliev, Sc. Cult. Techn. Publ., Singapore, pp.157-164.
- [P3] O. Ragos, M.N. Vrahatis and F.A. Zafiropoulos,
The topological degree for the computation of the exact number of equilibrium points of dynamical systems,
1994, Proceedings of the 2nd Hellenic-European Conference on Mathematics and Informatics HERMIS 94, Athens, Greece, Vol.2, pp.533-542.
- [P4] O. Ragos, M.N. Vrahatis and G.S. Androulakis,

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- [P6] F.A. Zafiropoulos, T.N. Grapsa, O. Ragos and M.N. Vrahatis, On the computation of zeros of Bessel and Bessel-related functions, 1996, Proceedings of the Sixth International Colloquium on Differential Equations (1995, Plovdiv, Bulgaria), edited by D. Bainov, VSP, Netherlands, pp.409-417.
- [P7] F.A. Zafiropoulos, O. Ragos and M.N. Vrahatis, Linearized viscoelastic wave propagation, 1996, Proceedings of the Sixth International Colloquium on Differential Equations (1995, Plovdiv, Bulgaria), edited by D. Bainov, VSP, Netherlands, pp.417-423.
- [P8] M.N. Vrahatis, O. Ragos and G.S. Androulakis, A method for computing families of periodic orbits based on unconstrained optimization, 1999, Proceedings of the NATO Advanced Study Institute on Hamiltonian Systems with Three or More Degrees of Freedom (1995, S'Agaró, Spain), edited by C. Simó, NATO ASI Series, Series C, Vol.533, Kluwer Academic Publishers, Netherlands, pp.642-645.
- [P9] M.N. Vrahatis, O. Ragos, F.A. Zafiropoulos and E.C. Triantafyllou, On the computation of all the equilibrium points in Hamiltonian systems with three degrees of freedom, 1999, Proceedings of the NATO Advanced Study Institute on Hamiltonian Systems with Three or More Degrees of Freedom (1995, S'Agaró, Spain), edited by C. Simó, NATO ASI Series, Series C, Vol.533, Kluwer Academic Publishers, Netherlands, pp.638-641.
- [P10] O. Ragos, E.A. Perdios, V.S. Kalantonis and M.N. Vrahatis, On the equilibrium points of the relativistic restricted three-body problem, 2001, Nonlinear Analysis, 47(5), pp.3413-3418. Proceedings of the Third World Congress of Nonlinear Analysts (2000, Catania, Italy), edited by V. Lakshmikantham.
- [P11] E.A. Perdios, O. Ragos, A.E. Perdiou and M.N. Vrahatis, Symmetric doubly asymptotic orbits in the photogravitational restricted three-body problem, 2001, Nonlinear Analysis, 47(5), pp.3443-3448. Proceedings of the Third World Congress of Nonlinear Analysts (2000, Catania, Italy), edited by V. Lakshmikantham.
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Early dropout prediction in distance higher education using Active Learning, 2018, IEEE Xplore Digital Library, doi [10.1109/IISA.2017.8316424](https://doi.org/10.1109/IISA.2017.8316424)
Proceedings of the 8th International Conference on Information, Intelligence, Systems and Applications (2017), Larnaca, Cyprus.

4.2. Πακέτα επιστημονικού λογισμικού

Στις προαναφερθείσες εργασίες [J9], [J16] και [J17] περιγράφεται η δομή, η λειτουργία και ο τρόπος χρήσης τριών πακέτων επιστημονικού λογισμικού που έχουν κατασκευασθεί από τους συγγραφείς.

4.3. Κρίσεις σε ερευνητικές εργασίες και προτάσεις

Κρίσεις σε διεθνή επιστημονικά περιοδικά

Computer Physics Communications, Astrophysics and Space Science Journal, The Journal of the Astronautical Sciences, Advances in Space Research, Journal of Astrophysics, Journal of King Saud University - Science

Κρίσεις σε ερευνητικές προτάσεις

1994 Ερευνητική πρόταση 53405MECH που υποβλήθηκε στο International Science Foundation στα πλαίσια ενός προγράμματος υποστήριξης της βασικής έρευνας σε χώρες της πρώην Σοβιετικής Ένωσης και της Βαλτικής.

2011 Ερευνητική πρόταση 1729 (πεδίο Fundamental research in the field of natural sciences) που υποβλήθηκε στο National Center of Science and Technology Evaluation του Kazakhstan στα πλαίσια ενός προγράμματος υποστήριξης της έρευνας και της καινοτομίας.