



PERSONAL INFORMATIONS

Clitan Iulia



 [Redacted]
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JOB APPLIED FOR POSITION

Faculty of Automation and Computer Science/ Associate professor/ position 20/ Subjects in the curriculum: Electronics and automations, Electronics, Industrial plant control

WORK EXPERIENCE

22 February 2016 - present

Lecturer
(24 July 2017 – 18 June 2019 maternity leave)

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

- Teaching activity, subjects in the curriculum: Computer Architecture, System Theory and Automation, Industrial plant control (eng), System Theory, System Theory (eng)

Business or sector Teaching

24 February 2014 - 21 February 2016

University teaching assistant for indefinite period

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

- Teaching activity, subjects in the curriculum: Electronics, Industrial Electronics, System Theory, Industrial plant control (eng)

Business or sector Teaching

1 October 2011- 23 February 2014

Fixed-term university teaching assistant

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

- Teaching activity, subjects in the curriculum: Electronics, Industrial Electronics, System Theory and Automation, Industrial plant control (eng)

Business or sector Teaching

21 February 2011- 29 May 2011

Associate teacher

Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

- Teaching activity, subjects in the curriculum: Industrial plant control (eng)

Business or sector Teaching

15 March 2011-15 June 2011

Internship

Tenaris Silcotub Romania, Maintenance Department, 93 Mihai Viteazul Boulevard, Zalău, 450131, Sălaj county, România, <http://www.tenaris.com/Romania/ro/>

Business or sector Automation

EDUCATION AND TRAINING

October 2009 – September 2012

PhD Degree, Scientific field: System Engineering

 Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

2009 – 2011

Master's degree, Scientific field: System Engineering, study program: Advanced process control

 Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

2004 – 2009

Graduate Engineer Degree, Scientific field: System Engineering and Computer Science, specialization - Automation and applied informatics

 Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Automation Department, 28 Memorandumului Street, Cluj-Napoca ,400114, Cluj county, Romania, www.utcluj.ro

2000 – 2004

Baccalaureate diploma, specialization Mathematics - Informatics

"David Prodan" National College, 15 Victoriei street, Cugir, 515600, Alba county, Romania,

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Advanced	Advanced	Intermediate plus	Intermediate	Intermediate plus
	B2: Independent user				
French	Beginner plus	Beginner plus	Beginner plus	Beginner	Beginner
	A2: Basic user				

 Communication skills

- good communication skills gained through my experience as a teacher

 Organisational / managerial skills

- (2006 - 2009) Active volunteer member in the student organization OSUT (Organizatia Studentilor din Universitatea Tehnică)
- Practice coordinator July – Sept. 2020 (4 students)
- Coordinator of diploma and dissertation papers

 Job-related skills

- good knowledge of the methods of simulation, modeling, and control of industrial processes and electronical circuits

 Computer skills

- Microsoft Office™ tools – Advanced level
- MATLAB – Advanced level
- Java, C/C++ – Medium level
- AutoCAD – Medium level
- OrCAD – Medium level
- CX Programmer – Medium level
- Circuit LAB simulator– Advanced level

 Other skills

- Graduate of the Department for teacher training, within the Technical University of Cluj-Napoca, 2008
- Scientific Authorized Course – 23-24 June 2011 Cluj-Napoca

 Driving licence

- AM, B1, B

ADDITIONAL INFORMATION

- Publications**
- Sole author of a didactic work:
 - • **Clitan Iulia**, *Industrial plant control – Laboratory manual*, Ed. U.T.Press, Cluj-Napoca, 2015, ISBN 978-606-737-116-1.
 - Co-author of a specialized book:
 - • Tiberiu Coloși, **Iulia Clitan**, Mihaela Ligia Ungureșan, Vlad Mureșsan, Mihail Abrudean, *Posibile extinderi ale matricei derivatelor parțiale a vectorului de stare, asociate unor categorii de ecuații cu derivate parțiale*, Editura Galaxia Gutenberg, 2020, ISBN 978-973-141-878-0
 - Co-author of two book chapters published at international publishing house:
 - • Vlad Muresan, **Iulia Clitan**, Valentin Sita, Mihail Abrudean, Mihaela-Ligia Ungureșan, 180 Isotope Separation Process Control. Chapter In: Gusikhin O., Madani K. (eds) *Informatics in Control, Automation and Robotics. ICINCO 2018. Lecture Notes in Electrical Engineering*, vol 613. Springer, Cham, 2020, pp 526-551, ISBN 978-3-030-31992-2. (71 WorldCat bookstores)
 - • Vlad Muresan, Valentin Sita, **Iulia Clitan**, Adrian Barstan, Identification and Control of a Car Speed Dynamics Using Artificial Intelligence, Chapter In: Groza A., Prasath R. (eds) *Mining Intelligence and Knowledge Exploration. MIKE 2018. Lecture Notes in Computer Science*, vol 11308. Springer, Cham, 2018, pp. 189 - 204, ISBN 978-3-030-05917-0. (208 WorldCat bookstores)
 - Co-author of a book:
 - • Liviu Miclea, Tiberiu Coloși, Iosif Ignat, Mihail Abrudean, Sergiu Nedevschi, Honoriu Vălean, Rodica Potolea, Mircea Ivan, Tudor Mureșan, **Iulia Clitan**, Iulia Ștefan, 50 de ani de Învățământ Superior de Automatică și Calculatoare în Cluj-Napoca, Ed. U.T.Press, Cluj-Napoca, 2015, ISBN 978-606-737-088-1.
- Projects**
- **9** research contracts of which **2** with third parties won through competition as *Project Director* and **7** as *Team Member*.
- Scientific papers**
- Author of **84** scientific papers published in the field of Systems Engineering, of which sole author or main author: **39**. Number of papers published in ISI Web of Science listed journals: **3**; papers published in volumes of international scientific conferences listed ISI Web of Knowledge **40**; papers published in specialized journals (BDI indexed): **18**; papers published in volumes of scientific conferences indexed in international databases: **5**; papers published in journals and volumes of non-indexed national and international scientific conferences: **18**.
 - ▪ I. Inoan, M. Abrudean, Control of an induction motor using the relay method approach, *Control Engineering and Applied Informatics (CEAI)*, vol. 16, no. 3, 2014, pp. 13-22, ISI Q4 Journal, ISSN 1454-8658.
 - ▪ D.C. Dumitrache, I. Inoan, B. De Schutter, An analytic model for a 13C isotope separation process by cryogenic distillation, *Journal of Process Control*, vol. 24, 2014, pp. 463-474, Ed. Elsevier, ISI Q1 Journal, ISSN 0959-1524
 - • T. Szelitzky, I. Inoan, D.C. Dumitrache, Advantages of robust control for series load frequency controlled induction heating inverters, *Control Engineering and Applied Informatics (CEAI)*, vol. 13, no. 1, 2011, pp. 62-68, ISI Q4 Journal, ISSN 1454-8658.
 - ▪ I. Clitan, Z Kovendi, V Muresan, M Abrudean, El Gergely, "Discrete Modeling and Control of an Industrial Robot used in a Metallurgical Process", 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), Oadea, 2019, pp. 77-80
 - ▪ I. Clitan, V. Muresan, D. Moga, V. Sita, C. Lungoci. Measured Signal Identification and Temperature Controller Design for a HIPEC Device. Proceedings of 38th International Conference on Telecommunications and Signal Processing (TSP), 9-11 Iulie, 2015, Prague, Czech Republic, pp. 304-308, ISBN: 978-147998498-5.
 - ▪ I.V. Sita, P. Dobra, D. Moga, R. Manescu, V. Muresan, I. Clitan. Optimization of Residential Heating Systems Using Accumulators. Proceedings of 15th International Conference On Environment And Electrical Engineering (IEEE EEEIC 2015), 10-13 Iunie, 2015, Rome, Italy, pp. 2165-2170, ISBN:978-1-4799-7992-9.
 - ▪ I. Clitan, V. Muresan, M. Abrudean, Design of a discrete controller using the Dahlin algorithm for a direct-current motor speed control, *Journal of Computer Science and Control Systems (JCSCS)*, vol. 7, no. 2, Ed. Universității din Oradea, 2014, pp. 13-18, ISSN 1844-6043

- Honours and awards**
- Best Paper Award, for "Design of neural network controllers for the horizontal positioning of an industrial manipulator", The 9th edition of the International Conference on Modeling and Optimization in the Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Neurorehabilitation and Human Motrics fields (OPTIROB), 2014.
 - Awarding research results, UEFISCDI, year 2014, for "An analytic model for a ^{13}C isotope separation process by cryogenic distillation", Journal of Process Control, vol. 24, 2014, pp. 463-474, Ed. Elsevier, *Revista ISI – red zone*.
- Memberships**
- Member of the Society of Automated Engineers (SRAIT), Cluj-Napoca branch
 - Member of International University Association for Science and Technology of Romania (UASTRO)
- Other information**
- Reviewer for various journals: Applied Energy, 3Biotech, International Journal of Dynamics and Control
 - Participation in committees of international conferences: ICCMA 2016 - International conference on Control, Mechatronics and Automation, Barcelona, Spain, 7-11 Dec. 2016, Committee Member; AQTR 2016 - International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania - Program committee; ICCMA 2018 - International conference on Control, Mechatronics and Automation, Changchun, China, 5-8 Aug. 2018, Committee Member; ICCMA 2020 - International conference on Control, Mechatronics and Automation, Moscow, Russia, 6-8 Nov. 2020, Committee Member; ICCMA 2021 - International conference on Control, Mechatronics and Automation, University of Luxembourg, Luxembourg, 11-14 Nov. 2021, Committee Member; ICoRSE Bucuresti 2021 - International conference on Reliable Systems Engineering, Bucuresti, Romania, 9-11 Sept. 2021, Committee Member.
 - Beneficiary of two scholarships: Roberto Rocca Education Programm (2007 - 2008); Roberto Rocca Education Programm (2008 - 2009).
- ANNEX**
- List of research contracts

17.06.2024



List of research contracts

Director of research contracts, won through competition, as follows:

1	<p>"Soluții de automatizare utilizate în proiectarea instalațiilor pentru construcții cu scopul eficientizării consumului energetic", proiect câștigat prin competiție organizată și finanțată de DELTA DESIGN EXPERIENCE SRL, Sibiu, Contract de cercetare nr. 6596/2021, valoare 50 000 lei, perioada 2021 – 2023</p> <p>Article published in specialized journals indexed in international databases:</p> <ul style="list-style-type: none"> ✓ I. Clitan, V. Muresan, M. Abrudean and A.F. Clitan, <i>Distributed Heating System for Residential Homes</i>, International Journal of Modeling and Optimization, IJMO Vol. 11, No. 1, pp. 29-32, 2021
2	<p>"Optimizarea lungimii barelor de oțel în funcție de procesul de programare a producției de material tubular și în relație cu procesul de producție din oțelarie", câștigat prin competiție - Proiecte de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca, C.I. tip 1.1-T6 nr 14412/2016, finanțare Tenaris Silcotub Zalău S.A., valoare 25 000 lei , perioda 2016-2017.</p> <p>Published articles indexed ISI Proceedings:</p> <ul style="list-style-type: none"> ✓ I. Clitan, V. Muresan, M. Abrudean, D.M. Sas. <i>Automatic Determination of Optimal Length of Casting Steel Blocks in the Context of an Imprecise Manufacturing</i>. Proceedings of 21th International Conference on Control Systems and Science (CSCS21), 29–31 Mai, 2017, București, România, pp. 99-105, ISBN 978-1-5386-1839-4. ✓ I. Clitan, M. Abrudean, V. Muresan, D. Sas. <i>Optimizing the Casting Length of Single Diameter Steel Billets Based on Minimum Cost</i>. Proceedings of 20th International Conference on System Theory, Control and Computing (ICSTCC), 12-15 Octombrie, 2016, Sinaia, Romania, pp. 73-78, ISBN 978-1-5090-2720-0. <p>Articles published in peer-reviewed journals:</p> <ul style="list-style-type: none"> ✓ I. Clitan, V. Muresan, M. Abrudean, D. Sas. <i>Optimization of the Casting Length of Billets and Computation of Minimum Number of Steel Batches</i>. Applied Mechanics and Materials, vol. 859, 2017, pp. 177-182, ISSN 1662-7482. ✓ D. Sas, I. Clitan, M. Abrudean, V. Muresan, T. Colosi. <i>Optimization of the Number of Steel Billets that Need to Be Casted in a Charge Using Simplex Method</i>. Applied Mechanics and Materials, vol. 859, 2017, pp. 183-187, ISSN 1662-7482

Member of research teams of national / international projects, as follows:

1.	<p>„Oferte educaționale noi și flexibile în învățământul terțiar universitar și non-universitar tehnic conforme cu cerințele pieței muncii în schimbare”, Cod SMIS proiect: POCU/320/6/21/122333, Beneficiar: Universitatea Tehnică de Construcții București, Partener 3: Universitatea Tehnică din Cluj-Napoca, responsabil partener Prof.dr.ing. Liviu Miclea – post Expert formare profesională</p>
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2.	<p>"Dinamica transmiterii virusului SARS-CoV-2 pe teritoriul României", Proiect PN-III-P2-2.1-SOL-2020-0157, Instituție coordonatoare: UNIVERSITATEA TEHNICĂ DIN CLUJ – NAPOCA, Director Proiect: Conf. dr. ing. Vlad Muresan, Durata 01.06.2020 – 31.05.2021</p>
3.	<p>Proiect de cercetare nr. 30104/2014, nr. 14411/2016, "<i>Simularea curbei de revenire (proces metalografic)</i>", Proiecte Interne de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca, C.I. tip 1.1-T6, finanțare Tenaris Silcotub Zalău S.A., Director: Conf. dr. ing. Vlad Muresan, Durata 2016-2017, valoare 82 500 lei,</p> <p>Published articles indexed ISI Proceedings:</p> <ul style="list-style-type: none"> ✓ H. Valean, V. Muresan, M. Abrudean, I. Clitan, M. Unguresan, A. Fanca, A. Puscasiu, T. Colosi. Temperature Modeling and Control in a Tunnel Heat-Treatment Furnace. <i>Proceedings of 20th International Conference on System Theory, Control and Computing (ICSTCC)</i>, 12-15 Octombrie, 2016, Sinaia, Romania, pp. 245-250, 978-1-5090-2720-0 ✓ V. Muresan, M. Abrudean, H. Valean, I. Clitan, M.L. Unguresan, T. Colosi, D. Sas, A. Puscasiu, A. Fanca. Pipes Temperature Control in an Annealing Furnace. <i>Proceedings of the 18th International Carpathian Control Conference (ICCC)</i>, 28 – 31 Mai, 2017, Sinaia, România, pp. 423 – 428, IEEE Catalog Number: CFP1742L-USB, ISBN: 978-1-5090-5825-9 <p>Article published in peer-reviewed journal: V. Muresan, M. Abrudean, I. Clitan, M. Unguresan, T. Colosi. Temperature Control in an Annealing Furnace, Using the IMC Strategy, <i>Applied Mechanics and Materials</i>, vol. 859, 2017, pp. 124-128, ISSN 1662-7482</p>
4.	<p>Proiect de cercetare nr. 30104/2014,: "<i>Dezvoltarea unui echipament pentru chimio-hipertermie prin paradigma cyber-physical systems, folosind tehnici avansate de modelare</i>", Proiect Intern de Cercetare-Dezvoltare-Inovare al Universității Tehnice din Cluj-Napoca, Director: Conf. dr. ing. Vlad Muresan, Durată: 2014-2015, valoare: 30000 lei</p> <p>Published articles indexed ISI Proceedings:</p> <ul style="list-style-type: none"> ✓ Clitan, V. Muresan, D. Moga, V. Sita, C. Lungoci. Measured Signal Identification and Temperature Controller Design for a HIPEC Device. <i>Proceedings of 38th International Conference on Telecommunications and Signal Processing (TSP)</i>, 9-11 Iulie, 2015, Praga, Cehia, pp. 304-308, ISBN: 978-147998498-5 ✓ C. Lungoci, V. Muresan, D. Moga, I. Clitan, R. Moga, V. Sita, T. Oniu, I.A. Mironiuc. Advanced temperature control for innovative HIPEC equipment. <i>Procedia Computer Science Journal</i>, vol. 64, 2015, pp. 497-505, Ed. Elsevier, ISSN: 1877-0509. ✓ I. Clitan, V. Muresan, M. Abrudean, D. Moga, H. Valean, C. Lungoci, I.A. Mironiuc. Flow and temperature control for an innovative Hyperthermic Intraperitoneal Chemotherapy Equipment. <i>Proceedings of 19th International Conference on System Theory, Control and Computing (ICSTCC)</i>, 14-16 Octombrie, 2015, Cheile Grădiștei-Fundata, România, pp. 162-167, ISBN: 978-147998481-7. ✓ I. Clitan, D. Moga, V. Muresan, N. Stroia, C. Lungoci, V. Sita. Digital Temperature Control for an Hyperthermic Intraperitoneal Chemotherapy Equipment. <i>Proceedings of 20th International Conference on Control Systems and Computer Science (CSCS20)</i>, 27–29 Mai, 2015, București, România, pp. 98-103, ISBN 978-14799-1779-2.

	<p>Article published in peer-reviewed journal: I. Clitan, D. Moga, C. Lungoci, V. Muresan, N. Stroia. Experimental Identification of Heating Process from Hyperthermic Intra-Peritoneal Chemotherapy (HIPEC) Equipment. <i>Applied Mechanics and Materials</i>, vol. 772, 2015, pp. 626-630, ISSN: 1662- 7482.</p>
5.	<p>Proiect de cercetare nr. 30141/2014: ”Platformă înglobată pentru controlul unui sistem de răcire termică solară adecvat aplicațiilor de răcire la scară mică/medie”, Proiect Intern de Cercetare-Dezvoltare-Inovare al Universității Tehnice din Cluj-Napoca, Director: As. dr. ing. Valentin Sita, Durată: 2014-2015, valoare: 30000 lei</p> <p>Published articles indexed ISI Proceedings I.V. Sita, P. Dobra, D. Moga, R. Manescu, V. Muresan, I. Clitan. Optimization of Residential Heating Systems Using Accumulators. <i>Proceedings of 15th International Conference On Environment And Electrical Engineering (IEEE EEEIC 2015)</i>, 10-13 Iunie, 2015, Roma, Italia, pp. 2165-2170, ISBN:978-1-4799-7992-9</p>
6.	<p>Contract de cercetare cu terții nr. 278/2008: ”Cercetarea și dezvoltarea în domeniul automatizării și informaticii aplicate”, terți Tenaris Silcotub Zalău, Director Prof. dr. ing. Mihail Abrudean, Durată proiect: 2008.</p>
7.	<p>Contract de cercetare cu terții nr. 276/2008: ”Laborator mobil de automatizare”, terți Tenaris Silcotub Zalău, Director Prof. dr. ing. Mihail Abrudean, Durată proiect: 2008.</p>

Signature,

