



Iulia Clitan

Date of birth: 20/07/1985 | **Place of birth:** Orăștie, Romania | **Nationality:** Romanian | **Phone:**

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Address: 1 Street Brates, bl. D4, 3rd floor, ap. 7, 400522, Cluj-Napoca, Romania (Home)

WORK EXPERIENCE

 **TECHNICAL UNIVERSITY OF CLUJ-NAPOCA** – CLUJ-NAPOCA, ROMANIA

Business or Sector Education | **Department** Automation |

Address 26-28 G. Barițiu street, room S3.4, 400027, Cluj-Napoca, Romania | **Email** iulia.clitan@aut.utcluj.ro |

Website <https://aut.utcluj.ro/index.php/index.en.html>

ASSOCIATE PROFESSOR – 27/09/2021 – CURRENT

- Teaching
 - subjects in the curriculum: Computer Architecture, Electronics and Automation, Industrial plant control
- Research activity

(18 september 2023 – 28 july 2025 maternity leave)

LECTURER – 22/02/2016 – 26/09/2021

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

(24 july 2017 – 18 june 2019 maternity leave)

UNIVERSITY TEACHING ASSISTANT FOR INDEFINITE TERM – 24/02/2014 – 21/02/2016

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

FIXED-TERM UNIVERSITY TEACHING ASSISTANT – 01/10/2011 – 23/02/2014

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

 **TECHNICAL UNIVERSITY OF CLUJ-NAPOCA** – CLUJ-NAPOCA, ROMANIA

Business or Sector Education | **Department** Automation |

Address 26-28 G. Barițiu street, room S3.4, 400522, Cluj-Napoca, Romania | **Email** iulia.clitan@aut.utcluj.ro |

Website <https://aut.utcluj.ro/index.php/index.en.html>

ASSOCIATE TEACHER – 21/02/2011 – 29/05/2011

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

 **TENARIS SILCOTUB** – ZALAU, ROMANIA

Business or Sector Manufacturing | **Website** <http://www.tenaris.com/Romania/ro/>

- Research and automation
- Maintenance Department

● **EDUCATION AND TRAINING**

10/2009 – 09/2012 Cluj-Napoca, Romania

PHD DEGREE Technical University of Cluj-Napoca, Faculty of Automation and Computer Science

Field of study System Engineering

10/2009 – 07/2011

MASTER'S DEGREE Technical University of Cluj-Napoca, Faculty of Automation and Computer Science

Field of study System Engineering/ Avanced process control

10/2004 – 07/2009

GRADUATE ENGINEER Technical University of Cluj-Napoca, Faculty of Automation and Computer Science

Field of study System Engineering and Computer Science/ Automation and applied informatics

09/2000 – 06/2004 Cugir, Romania

BACCALAUREATE DIPLOMA “David Prodan” National College

Field of study Mathematics and Informatics

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	B2	B2	B2
FRENCH	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● **SKILLS**

Teaching, explaining | Communication and Communication Skills | Effective teaching techniques | Good Team Working | Research and scientific writing | Research and content development skills. | I know how to organize work and schedule it in the workday | Modeling and Simulation of Industrial Processes | Intermediate knowledge of C/C++ , Java, AutoCAD, CX Programmer | Advanced knowledge of MATLAB, CircuitLAB Simulator, Microsoft Office tools

● **PROJECTS**

9 research contracts of which 2 with third parties won through competition as Project Director and 7 as Team Member

- "Soluții de automatizare utilizate în proiectarea instalațiilor pentru construcții cu scopul eficientizării consumului energetic", financed by DELTA DESIGN EXPERIENCE SRL, Sibiu, Research Project no. 6596/2021, value 50 000 lei, between 2021 – 2023
- "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", Research project type 1.1-T6 no 14412/2016, financed by Tenaris Silcotub Zalău S.A., value 25 000 lei , between 2016-2017
- Main as Member
 - „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

- "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
- Proiect de cercetare nr. 14411/2016, "Simularea curbei de revenire (proces metalografic)", 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

PUBLICATIONS

Author of 112 scientific papers published in the field of Systems Engineering, of which sole author or main author: 46

- Papers published in ISI Web of Science listed journals: 12 (of which 6 in Q1 journals);
- Papers published in volumes of international scientific conferences listed ISI Web of Knowledge 49;
- Papers published in specialized journals (BDI indexed) and in volumes of scientific conferences indexed in international databases: 33;
- Papers published in journals and volumes of non-indexed national and international scientific conferences: 18.

2020

Posibile extinderi ale matricei derivatelor parțiale a vectorului de stare, asociate unor categorii de ecuații cu derivate parțiale

Authors: Tiberiu Coloși, Iulia Clitan, Mihaela Ligia Ungureșan, Vlad Mureșsan, Mihail Abrudean | **Volume, Issue and Pages:** ISBN 978-973-141-878-0 | **Publisher:** Galaxia Gutenberg

2015

Industrial plant control – Laboratory manual

Authors: Clitan Iulia | **Volume, Issue and Pages:** ISBN 978-606-737-116-1 | **Publisher:** Ed. U.T.Press, Cluj-Napoca

2020

180 Isotope Separation Process Control

Authors: Vlad Muresan, Iulia Clitan, Valentin Sita, Mihail Abrudean, Mihaela-Ligia Ungureșan | **Journal Name:** Lecture Notes in Electrical Engineering | **Volume, Issue and Pages:** vol 613, pp 526-551 | **Publisher:** Springer, Cham

Identification and Control of a Car Speed Dynamics Using Artificial Intelligence

Authors: Vlad Muresan, Valentin Sita, Iulia Clitan, Adrian Barstan | **Journal Name:** Lecture Notes in Computer Science | **Volume, Issue and Pages:** vol. 11308, pp. 189 - 204 | **Publisher:** Springer, Cham

2015

50 de ani de Învățământ Superior de Automatică și Calculatoare în Cluj-Napoca

Authors: Liviu Miclea, Tiberiu Coloși, Iosif Ignat, Mihail Abrudean, Sergiu Nedevschi, Honoriu Vălean, Rodica Potolea, Mircea Ivan, Tudor Mureșan, Iulia Clitan, Iulia Ștefan | **Volume, Issue and Pages:** ISBN 978-606-737-088-1 | **Publisher:** U.T.Press, Cluj-Napoca

Indoor Air Quality Monitoring System for Healthcare Facilities

Authors: Adela Puscasiu, Alexandra Fanca, Honoriu Valean, Dan-Ioan Gota, Ovidiu Stan, Nicolae M Roman, Iulia Clitan, Vlad Muresan | **Journal Name:** IFMBE Proceedings | **Volume, Issue and Pages:** vol 88., pp. 399–408 | **Publisher:** Springer

2022

Predictive Motor Speed Control for an Industrial Robot. A Dead-Beat Approach

Authors: Iulia Clitan, Cristina Stancioi, Vlad Muresan | **Journal Name:** Lecture Notes in Networks and Systems | **Volume, Issue and Pages:** vol. 305, pp. 278-286 | **Publisher:** Springer, Cham

2022

Manualul profesorului pentru proiectarea cursurilor de antreprenoriat incluziv în învățământul superior

Authors: Iulia Clitan, Flavia Jascau, Vlad Muresan, Ovidiu Petru Stan | **Volume, Issue and Pages:** ISBN 978-606-737-591-6 | **Publisher:** U.T. Press

2024

Comparison Between Different Methods of Segmentation in Dental Image Processing

Authors: Stancioi C.-M., Clitan Iulia, Roman Nicolae Marius, Abrudean M., Muresan Vlad | **Journal Name:** IFMBE Proceedings | **Volume, Issue and Pages:** vol. 102, pp. 69-74 | **Publisher:** Springer, Cham

2024

eHealth Mobile Application Using Fitbit Smartwatch

Authors: Pop, Adela Fanca, Alexandra Valean, Honoriu Gota, Dan-loan Stan, Ovidiu Roman, Marius Nicolae Clitan, Iulia Muresan, Vlad | **Journal Name:** IFMBE Proceedings | **Volume, Issue and Pages:** ol 102, pp. 115-125 | **Publisher:** Springer, Cham

● **CERTIFICATIONS**

Technical University of Cluj-Napoca, Specialty Department with Psychopedagogical Profile, 30/05/2008

Graduate of Teacher training modules

24/06/2011

Scientific Authorized Course

● **HONOURS AND AWARDS**

Beneficiary of two scholarships: – Tenaris Silcotub, Romania

- Roberto Rocca Education Programm (2007 - 2008);
- Roberto Rocca Education Programm (2008 - 2009).

2014

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.

2015

Research results award – UEFISCDI

for "*An analytic model for a ¹³C isotope separation process by cryogenic distillation*", Journal of Process Control, vol. 24, 2014, pp. 463-474, Ed. Elsevier, *Revista ISI – red zone*.

● **NETWORKS & MEMBERSHIPS**

Member of the Society of Automated Engineers (SRAIT), Cluj-Napoca branch

Member of International University Association for Science and Technology of Romania (UASTRO)
