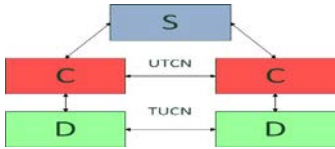
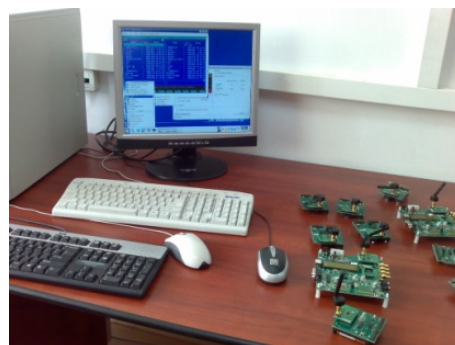


DISTRIBUTED CONTROL SYSTEMS

Contact details

Name	Distributed Control Systems
Acronym	DCS
Logo	
Site	http://research.utcluj.ro/tl_files/research/Research%20Domain/Systems%20Engineering/4_Letia.pdf
Address	2, Observatorului St, room 310; 24, 26, Baritiu St., room G1, Cluj-Napoca, Romania
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Areas of expertise

Distributed control systems, embedded systems, real-time application, intelligent control etc.

Team

Prof. Dr. Eng. Tiberiu S. Letia, Prof. Dr. Eng. Adina Aștilean, Assist. Prof. Dr. Eng. Camelia Avram, Assist. Prof. Dr. Eng. Mihai Hulea, Assist. Prof. Dr. Eng. Radu Miron, Assist. Dr. Eng. Dan Radu, Assist. Dr. Eng. Maria-Magdalena Santa

Representative projects

I3E, "Promoting Innovation in the Industrial Informatics and Embedded Systems Sectors through Networking", Contract EU: SEE/A/219/1.1/X, <http://www.i3e.eu/> (2009-2012)
"Identification system based on digital fingerprint with mobile terminals", PNII-PDP (Joint Applied Research Project) 11038/2007, (2007-2010)
"Real-Time intelligent system for management, control and information of railway traffic", Grant Cod CNCISIS: 1537/2007, (2007-2009)
"Intelligent control system of road traffic", research topic in the Postdoctoral project: Development and support of multidisciplinary postdoctoral programs in major technical areas of national strategy of Research - Development - Innovation" 4D-POSTDOC, contract no. POSDRU/89/1.5/S/52603, project co-funded by the European Social Fund through Sectorial Operational Program Human Resources Development 2007-2013, (2010-2013).

Significant results

The most representative publications of the past 5 years:

1. Kilyen Attila Ors, Hulea Mihai, Letia Tiberiu S., Synthesis of Train Traffic Control System with Evolutionary Computing IEEE 19th International Conference on Automation, Quality and Testing, Robotics (THETA), Cluj Napoca, Romania, May 22-24, 2014

2. T. Letia, O. Cuiubus, "Cooperative Control for Urban Vehicle Traffic", *CESCIT2012-1st IFAC Conference on Embedded Systems, Computational Intelligence and Telematics in Control*, Wuerzburg, Germany, Elsevier, 2012, pp. 302-307
3. T.S. Letia, M. Hulea, O. Cuiubus, "Controller synthesis method for Discrete Event Systems", in *Automation Quality and Testing Robotics (AQTR), 2012 IEEE International Conference*, 2012
4. T. Letia, A. Astilean, R. Miron, M. Santa, "Train Traffic Control Based on Distributed Resource Allocation", *The Second IFAC Symposium on Telematics Applications TA 2010*, October 5–8, Timișoara, Romania, 2010
5. R. F. Miron, T. S. Letia, M. Hulea, "Two Server Topologies for a Distributed Fingerprint-Based Recognition System", *ICSTCCV2, IEEE - 15th International Conference on System Theory, Control and Computing*, 14-16 October 2011, Sinaia, Romania, vol.1, 2011, pp. 394-399
6. C. Avram, A. Aștilean, D. Radu, "Vehicle Navigation System", *26th European Conference On Modeling And Simulation*, 2012
7. S. Folea, C. Avram, S. Vidican, A. Astilean, "Telemonitoring System of Neurological Signs a Health Telematique Network", in *International Journal of E-Health and Medical Communications*, vol. 1, issue 4, 2010
8. S. Folea, M. Hulea, C. Avram, A. Astilean, "Distributed Monitoring and Supervising System for E-Health Applications", in *Telemedicine and E-Health Services, Policies, and Applications: Advancements and Developments*, 2012

Significant solutions:

Control and monitoring system for urban vehicle traffic
 Control and monitoring system for railway traffic
 Control systems for Flexible Manufacturing Systems
 Distributed control for hybrid processes.
 Design, verification and implementation real-time (embedded) applications.
 Person identification based on digital fingerprint.

The offer addressed to the economic environment

Research & development	Automatic synthesis of control and monitoring systems for discrete event or hybrid, concentrated or distributed processes. Verification of real-time applications.
Consulting	Embedded systems, real-time application design, implementation and verification. Distributed control systems for urban vehicle traffic or railway traffic.
Training	Design and implementation of real-time application, Design and implementation of distribute control application Distributed control of Transportation systems.