

## PERSONAL INFORMATION

**Gabriela TONȚ** Oradea, Bihor county, Romania gtont@uoradea.ro

## WORK EXPERIENCE

- 2017 Full Professor, Process Interfaces, Reliability, Strategic Management
- 2011-2015 Associate Professor  
Department of Control Systems Engineering and Management Department,  
Faculty of Electrical Engineering and Information Technology, University of  
Oradea, Universităţii st., no. 1, zip code 410087, Oradea
- 2006- 2011 Associate Professor in Department of Electrical Engineering, Measurements and  
Electric Power Use, Faculty of Electrical Engineering and Information  
Technology, University of Oradea  
Higher Education
- 2002-2006 Lecturer  
Lecturer in Department of Electrical Engineering, Measurements and Electric  
Power Use, Faculty of Electrical Engineering and Information Technology,  
University of Oradea
- 1997-2002 Engineer I A  
University of Oradea, Geothermal Research Centre

## EDUCATION AND TRAINING

- 2016 Habilitation thesis with the title: Systems Reliability Investigations Enhancing Risk  
Management Decisions Making in Dynamic Environments,  
University "Lucian Blaga" Sibiu
- 2012-2014 Master in Economics and International Business,  
SMEs' Domestic and International Business Administration;  
University of Oradea , Faculty of Economics
- 2006-2007 Extern Qualitätsmanagementauditorin  
Technische Überwachungs Vereine Akademie  
Diploma Of External Quality Auditor TÜV Rheinland for German Speaking  
Countries, Due To The Graduation Course "External Auditor for Quality  
Management Systems ISO 9001:2000 / ISO 19011:2002, Organized In Accordance  
with Requirements No. TÜV Rheinland Akademie V14, In Agreement With The  
Directive Of The Department Of Personnel Certification B19 Of TÜV Rheinland  
Akademie In Cologne, No. TRA/07/21793 Registration Certificate, TUV Rheinland  
Romania, Bucharest, 2006

#### External Quality Auditor Certified TÜV Rheinland

Diploma of External Quality Auditor TÜV Rheinland Romania, Due to the Graduation Course "External Auditor for Quality Management Systems ISO 9001:2000 / ISO 19011:2002, Organized in Accordance with Requirements No. TÜV Rheinland Akademia V14, In Agreement with the Directive Of The Department Of Personnel Certification B19 Of TÜV Rheinland Akademie In Cologne, No. TRA/07/21793 Registration Certificate, TUV Rheinland Romania, Bucharest, 2006.

#### Management Representative for Quality Certified TÜV Rheinland

Diploma of Management Representative for Quality, Due the Course Graduation "Management Representative for Quality, Organized In Accordance With Requirements No. V12 TÜV Rheinland Akademia, Department of Personnel Certification of TUV Rheinland Akademie in Cologne, No. TRA/06/21533 Registration Certificate, TUV Rheinland Romania, Bucharest 2006.

#### Quality Management Systems Specialist certified TÜV Rheinland

Specialist in Quality Management Systems Through Graduation Course "Quality Management Systems Specialist, Organized In Accordance With Requirements No. TÜV Rheinland Akademia V 10, the Department Personnel Certification of TUV Rheinland Akademie in Cologne, No. TRA/06/20830 Registration Certificate, TUV Rheinland Romania, Bucharest 2006.

#### Management Specialist in HACCP and ISO 22000, Specialist certified TÜV Rheinland

Specialist in HACCP and ISO 22000, Due to the Graduation Course, HACCP and ISO 22000, Organized in Accordance with Requirements No. TÜV Rheinland Akademia V14, B19 According to the Directive of the Department of Personnel Certification of TUV Akademie Rheinland, Cologne, No. TRRO Registration Certificate AK-118-2007, TUV Rheinland Romania, Bucharest, 2007.

2000-2005 **PhD. Engineer** *Research Regarding the Reliability of Coolants Transport Systems and Electrical Equipment from Nuclear Power Plants*

Technical University Cluj Napoca

2003-2004 **Master in Pedagogical Sciences**  
Department of Pedagogical Training,  
University of Oradea

2000-2002 **Master in Informatics**  
Diploma in Informatics Proficiency

University of Oradea

1978-1983 Engineer

University "Politehnica" Bucharest, Faculty of Technological Chemistry

1974-1978 High school graduate in Mathematics and Physics

Mihai Viteazu High School Slobozia, Ialomița

Mother tongue: Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient use
French	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

#### Communication skills

- Communication skills acquired through teaching and papers presentation on national and international scientific meetings;
- Relationships based on active listening skills and empathy;
- Adapting to new situations, selecting ways and methods of adequacy;
- Negotiation skills and identification of agreement points;
- Improving teamwork atmosphere by developing cohesion and autonomy of the team.

#### Organisational / managerial skills

- Organizational skills acquired and improved through coordination and cooperation in research project teams;
- Able to work in partnership with research target organisations; demonstrating initiative, flexibility and have high attention to detail.
- Strategic and analytic thinking focused on compliance with project requirements;
- Ability to manage competing priorities and cope with work to deadlines;
- Ability to analyse information for optimal decisions and communicate effectively.

- Job-related skills**
- Statistical management of the processes;
  - Performing complex electrical systems reliability analyzes: identification of typical structures of power systems and establish adequate methods for analysis, design, evaluation models, algorithms and computer programs to analyze reliability;
  - Develop strategies to control reliability and preventive and corrective maintenance for electrical systems;
  - Analysis of the reliability and improved performance robotic systems;
  - Multi sensor systems integrating for navigation of autonomous robot;
  - Dynamic allocation of tasks assignments for walking robots;
  - Reliability Analysis of socio-technical systems.
- Computer skills**
- Specialized in applied informatics;  
Good user of STATISTICA and reliability analysis softs: Weibull++, BlockSim, RENO.
  - Modeling and simulation Matlab/Simulink, LabView, platforms

Driving license B

## TEACHING AND SCIENTIFIC ACTIVITY OVERVIEW

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- More than 210 citations in Thomson ISI and BDI;
- Seven plenary presentations of invited international scientific meetings;
- Reviewer for journals and scientific conferences;
- Three national patents, one international patent;
- Member of five journals and scientific committees of scientific events;
- Reviewer eight doctoral committees;
- Director and member of nine international and national research projects;
- Listed in Who's Who in the World, 26th Silver Anniversary Edition 2010;
- Member of the American Association for Science and Technology (AASC);
- Member of Association of Engineers and Technicians of Romania (AGIR);
- Evaluator Romanian Agency for Quality Assurance in Higher Education
- Reviewer Executive Unit for Financing Higher Education Research Development and Innovation, (UEFISCDI);
- Member of the Center of Excellence of Quality Management, University of Oradea
- 14 international awards.

### Awards

- Diploma for research performance, University of Oradea, 2017.
- The Belgian International Trade Fair for Technological Innovation, EUREKA, Gold Medal with mention in Bruxelles for the Invention *Method and Device for Driving Mobil Inertial Robot* Brussels, 2009.
- Medal and Diploma of International Warsaw Inventions Show IWIS 2009, Association of Polish Inventors and Rationalizers, for the Invention *Method and Device Walking Robot Dinamic Control* Warsaw, 2009.

- Diplôme du Salon international des Inventions Genève, pour *Procédé et contrôle dynamique de la marche de robots*, Genève 2010.
- Diplôme du Salon international des Inventions Genève, pour *Méthode et dispositif de fonctionnement et de contrôle de robots* Genève 2010.
- Special Prize for the Innovative Invention *Method and Device for Driving Mobil Inertial Robot*, Isfahan University of Technology, Robotic Center, Republic of Iran, 2010.
- The Belgian International Trade Fair for Technological Innovation, EUREKA, Gold Medal with mention in Bruxelles for the Innovation *Method and Device of Propulsion Without Any Source of Self-Energy Mobile Systems*, 2010.
- Gold Medal and Diploma of International Warsaw Inventions Show IWIS 2010, Association of Polish Inventors and Rationalizers, for the Invention *Method and Device of Dynamic Control of a Walking Robot* Invention Warsaw, 2010.
- Gold Medal with Mention and Diploma of International Warsaw Inventions Show IWIS 2010, Association of Polish Inventors and Rationalizers, for the Invention *Method and Device for Driving Mobil Inertial Robot* Warsaw, 2010.
- Diplôme du Salon international des Inventions Genève, pour l'invention: *Méthode et dispositif de fonctionnement et de contrôle de robots mobiles d'inertie*, 2011.
- Outstanding Invention Award, Hong Kong Polytechnic University, Diploma for *Propulsion Without Any Source of Self-Energy Mobile Systems* for the Innovation Method and device of propulsion without any source of self-energy for mobile systems, 2011.
- Gold Medal of the 9th International Exhibition of Inventions - ARCA 2011, Zagreb, CROATIA, 13-15 October 2011, for the patent: *Method and device of propulsion without any source of self-energy for mobile systems*, 2011.
- Gold Medal for Inventions at 5-th IWIS Exhibition, 3-5 November 2011 for the patent: *Method and Device for Walking Robot Dynamic Control*, Warsaw, Poland 2011.
- Medal and international Prize of The X-th – the Moscow International Salon of Innovations and Investments, September 2010, Moscow, Russia, for the patent: *Method and Device for Walking Robot Dynamic Control*.

27.11.2022

