

Ioan - Chiril BACIVAROV

Curriculum-vitae

- ◆ Nascut la 10 ianuarie 1949, in Ploiesti, Prahova
- ◆ Cetatenie: Romana
- ◆ Domiciliu: Str. Ariusul Mare, nr. 3, Bl. I10, Ap.88, Bucuresti
- ◆ Contact: e-mail: bacivaro@euroqual.pub.ro, ibacivarov@yahoo.com
- ◆ Telefon: 0766345575; 0214024895
- ◆ 1962 - 1966: Liceul teoretic nr. 32, Bucuresti, absolvent (1966) ca Sef de promotie: 9,92/10;
- ◆ 1966 - 1971: Institutul Politehnic Bucuresti, Facultatea Electronica si Tc., specialitatea Telecomunicatii; absolvent 1971 (inginer electronist) ca Sef de promotie: 9,78/10
- ◆ 1974 - 1978 - Doctorat - facultatea de Automatica, Institutul Politehnic Bucuresti; doctor inginer in specialitatea "Fiabilitatea sistemelor" (1978);
- ◆ Asistent universitar (1971-1980), sef de lucrari universitar (1980 - 1990); conferentiar (1990- 1998) **profesor universitar** (din februarie 1998) la catedra / departamentul Tehnologie electronica si fiabilitate, facultatea Electronica si Tc., Institutul Politehnic Bucuresti / Universitatea Politehnica Bucuresti
- ◆ *Conducator de doctorat* din anul 1993 la ICTc.: 3 teze de doctorat finalizate.
- ◆ *Conducator de doctorat* din anul 2001 la SD-ETTI-UPB:10 teze de doctorat finalizate, dintre care 3 in co-tutela cu universitati din Franta. Membru in jirii nationale (22) si internationale (5) de doctorat.
- ◆ Autor a 16 carti, a peste 110 de articole si 140 de comunicari stiintifice in tara si in strainatate in domeniile calitate, siguranta in functionare, tehnologie informationala, tehnologie electronica. Participant la 61 de contracte de cercetare stiintifica - in principal in domeniile fiabilitatii si calitatii (fiind coordonator la 34 dintre aceste contracte) in perioada 1973 - 2017.
- ◆ **Domenii de competenta:**
 - Ingineria si managementul fiabilitatii, mentenabilitatii si securitatii sistemelor tehnice complexe (in principal a sistemelor electronice/de telecomunicatii).
 - Asigurarea, certificarea, ingineria si managementul calitatii.
 - Studiu asistat de calculator al calitatii, fiabilitatii si mentenabilitatii sistemelor.
 - Modelarea, evaluarea si cresterea fiabilitatii si securitatii sistemelor de mare raspundere functionala.
 - Studiul corelatiilor tehnologie-calitate-dependabilitate
 - Tehnologie informatica, e-security, e-learning.

Aceste domenii s-au cristalizat in activitatea didactica si stiintifica desfasurate pe o perioada de 45 de ani in cadrul catedrei / departamentului "*Tehnologie Electronica si Fiabilitate*" din Universitatea Politehnica Bucuresti si au fost confirmate prin activitatea desfasurata ca **profesor invitat** la un numar de universitati de prestigiu din Europa (Elvetia :1994, Franta :1993-2006 si Portugalia :1998) ca si de un numar de **stagii de specializare** sau/si **cercetare** la universitati din Marea Britanie, Franta, Italia, Spania, Grecia si Portugalia (1993-2016).

Pot fi notate principalele rezultate:

- ◆ **Teza de doctorat:** "*Contributii la studiul fiabilitatii unor sisteme de telecomunicatii*" (1978)



- ◆ **Prima monografie publicata** in Romania care trateaza tematica dependabilitatii sistemelor de telecomunicatii in toata complexitatea sa; V. Catuneanu, **I.C. Bacivarov**, *Fiabilitatea sistemelor de telecomunicatii*, Editura Militara, Bucuresti, 1985, 303 pp. (premiul « Traian Vuia » al Academiei Romane pe anul 1985) ;
- ◆ **Cursuri universitare si postuniversitare in domeniu dezvoltate : 14** - dintre care : *Calitate si fiabilitate, Fiabilitatea sistemelor de telecomunicatii, Siguranta in functionare a sistemelor de radiocomunicatii, Fiabilitatea dispozitivelor si sistemelor microelectronice, Tehnici avansate in fiabilitate si mentenabilitate, Asigurarea si certificarea calitatii, Ingineria si managementul calitatii si sigurantei in functionare in electronica si telecomunicatii*,
- ◆ **In calitate de "Invited/Visiting Professor"** am predat :
 - cursul intensiv "*Dependability of Distributed Systems*" (din cadrul Masterului in domeniul fiabilitatii) la ETH Zurich (in 1994) si
 - prelegeri din cadrul cursurilor "*Sûreté de fonctionnement*" si "*Fiabilité des composants et systèmes électroniques*" (din cadrul Masterului EPIQCS - European Programme in Quality of Complex Integrated Systems) la INP Grenoble in perioada 1993-2003 si
 - "*Sûreté de fonctionnement*" la ISTIA Angers (2000-2008)
- ◆ **Stagii de specializare/cercetare** in domeniul calitatii si fiabilitatii (diferite perioade in intervalul 1993-2016) la: Institut National Polytechnique Grenoble, ETH Zurich, ENSAM Paris, ISTIA Angers - Departement Qualite-Fiabilite; University of Paisley-Quality Center, COREP - Politehnica di Torino, University Alberta, Lisbon, University ERASMUS Rotterdam, Olanda, Universidade Politehnica de Catalunya Barcelona, Spania

Responsabilitati

- ◆ Directorul si initiatorul programului de Studii Aprofundate "*Ingineria calitatii si fiabilitatii*" de la Facultatea Electronica Telecomunicatii si Tehnologia Informatiei, UPB (1996- 2006), rezultat al proiectului european TEMPUS – EUROQUALROM.
- ◆ Initiatorul -din 2006 si directorul (2006-2014) al programului de master "*Ingineria calitatii si sigurantei in functionare in electronica si telecomunicatii- ICSFET*" de la Facultatea Electronica Telecomunicatii si Tehnologia Informatiei, UPB
- ◆ Coordonarea (1982-2008) si restructurarea continua a *cursurilor postuniversitare* (de formare continua) in domeniul calitatii si sigurantei in functionare (fiabilitate, mentenabilitate, securitate) desfasurate in cadrul Facultatii Electronica Telecomunicatii si Tehnologia Informatiei din Universitatea "Politehnica" din Bucuresti, neintrerupt de trei decenii, prin care au fost scolarizati – in 30 de ani - peste 1500 de specialisti in domeniu;
- ◆ Coordonator international al proiectului european de succes TEMPUS-PHARE S_JEP-11300 "EUROQUALROM" (1996-1999) vizand problematica calitatii (16 parteneri din 7 tari europene: Franta, Italia, Marea Britanie, Spania, Olanda, Portugalia, Grecia).
- ◆ Realizatorul si coordonatorul laboratorului didactic si de cercetare "COMPUTER-AIDED QUALITY" (cu suport TEMPUS) din Facultatea de Electronica si Telecomunicatii – din 1996
- ◆ Membru Comitet Director al *European Program in Quality of Complex Integrated Systems (EPIQCS)*- din 1994 pana in prezent
- ◆ Reprezentant al Romaniei / membru in comitetele « *Educatie si instruire* » si « *Siguranta in functionare* » ale *European Organisation for Quality(EOQ)*- perioada 1991-2000
- ◆ Membru al Consiliului de Acreditare al *Retetelei Nationale de Acreditare din Romania (RENAR)* - perioada 1998-2004
- ◆ Membru al Consiliului Director al *Societatii Romane pentru Asigurarea Calitatii (SRAC)* - din 1996 pana in prezent
- ◆ Presedinte al *Comitetului Tehnic National al Comitetului Electrotehnic International (CEI) 144 "Siguranta in functionare"* (din 1991 -prezent) - peste 40 de standarde aprobate in aceasta perioada



- ◆ Director cu calitatea al Facultatii Electronica Telecomunicatii si Tehnologia Informatiei (ETTI) 2000- 2010 (elaborarea in anul 2006 a procedurilor si Manualului calitatii pentru ETTI – in pregatirea vizitei ARACIS)
- ◆ Coordonator ERASMUS/SOCRATES al Facultatii Electronica Telecomunicatii si Tehnologia Informatiei (ETTI) – din 2002 : peste 40 de mobilitati externe pentru profesori si peste 900 de mobilitati externe pentru studenti in aceasta perioada

Consilii Editoriale/Comitete stiintifice

- ◆ *Editor for Europe* al revistei internationale "**Quality Engineering**" (M.Dekker & ASQC, USA) – si Editor/autor al rubricii permanente "*Quality Events in Europe*" a aceleiasi reviste (din 1993 pana in prezent)-revista ISI
- ◆ Coordonarea stiintifica - de la infiintarea acestora - a principalelor publicatii de specialitate din România, în calitate de *Redactor Sef* al revistei "**Asigurarea calitatii - Quality Assurance**" (din 1996) si *Senior Editor* al revistei **Calitatea** (din 2000).
- ◆ Chairman al Editorial Board al **International Journal of Information Security and Cybercrime - IJISC** (din 2012)
- ◆ Membru al *Advisory Editorial Boards / Consiliilor Editoriale* al mai multor reviste internationale/ nationale în domeniul calitatii/ fiabilitatii, între care: **Reliability Engineering & System Safety** si **Maintenance Management International** ((Elsevier Applied Science, UK); **The Quality Observer** (USA); **Forum Qualite Scientifique** (Canada)- revista mondiala francofona în domeniul calitatii; **Calitate, Fiabilitate, Mentenabilitate, Redactor responsabil - sectiunea Fiabilitate; Optimum Q,**
- ◆ *Membru al International Programme Committees si coordonator al unor sesiuni stiintifice* în cadrul principalelor conferinte internationale în domeniul sigurantei in functionare, între care:
 - **European Safety and Reliability Conference –ESREL: ESREL'94** (La Baulle, Franta); **ESREL'96** (Aghia Pellaghia, Grecia); **ESREL'97** (Lisabona, Portugalia); **ESREL'98** (Trondheim, Norvegia); **ESREL'99** (Munchen, Germania); **ESREL'2000** (Edinburgh, UK); **ESREL'2002** (Torino, Italia); **ESREL'2004**; **ESREL'2008**; **ESREL'2014**;
 - **European ESREF Conference**, Bordeaux, 1997; **Probabilistic Safety Assessment and Management: PSAMI**, USA, 1991 - si **PSAM III**, Grecia 1996 ;
 - **MAAOE International Conference**, Colorado, U.S.A., 2000;
 - **Congrès International Pluridisciplinaire en Qualité et Sûreté de fonctionnemen - QUALITA**, Paris, 1999, Ancy, 2001, Nancy 2003 , Bordeaux 2005 si Tanger 2007.
- ◆ *Chairman si organizator al Workshop-urilor EUROQUALROM «Abordari moderne in ingineria, managementul, asigurarea si educatia pentru calitate si dependabilitate. Coordonate Europene»*, Bucuresti 1999-2010, cu participare internationala
- ◆ *Membru în comitetele stiintifice si coordonator al unor sectiuni de calitate-fiabilitate al conferintelor/simpozioanelor nationale în domeniu (începând cu 1977)*
- ◆ Coordonarea stiintifica (**Chairman of the International Scientific Committee**) a **International Conference in Quality and Dependability- CCF: CCF2000, CCF2002, CCF2004, CCF2006, CCF2008, CCF2010, CCF2012, CCF2014, CCF2016.**
- ◆ **Premii si distinctii academice obtinute: Premiul "Traian Vuia" in domeniul stintelor tehnice al Academiei Romane pe anul 1985** pentru cercetarile in domeniul fiabilitatii sistemelor de telecomunicatii

◆ ACTIVITATE STIINTIFICA



Acestea s-a materializat in: 16 carti, peste 110 de articole si peste 130 de comunicari stiintifice in tara si in strainatate, ca si in 58 de contracte de cercetare stiintifica (coordonator la 34). O lista selectiva a acestor lucrari este prezentata in cadrul acestei rubrici.

◆ **Granturi pentru cercetare stiintifica obtinute ca director de proiect din diverse surse:**

GRANTURI internationale

- **EUROQUALROM-European Education in Quality for Romania TEMPUS-PHARE S_JEP-11300** (16 parteneri universitari din 7 tari membre UE: Franta, Marea Britanie, Italia, Olanda, Spania, Portugalia si 4 universitati din Romania), 1996-1999, coordonator al programului **I Bacivarov**
- **1993 PECO Research Project no.8460 - EC Programme for Cooperation in Sciences and Technology with Central and eastern European Countries, DEPENDABILITY ANALYSIS OF COMPLEX ELECTRONIC COMPONENTS AND SYSTEMS** (coordonator)
- **Project Nr. 225997-CP-1-2005-1-FR-ERASMUS-TNPP EIE-Surveyor: Reference Point for Electrical and Information Engineering in Europe 2005-2009**
- Contract de cercetare stiintifica MCT - **cod X053.2/1994, U.P.B. - Technische Universität München. RELIABILITY OF MULTISENSOR SYSTEMS 1994-1996**
- **IMG-93-RO-2060, Tempus Phare grant, TIMA - INP Grenoble, France -1993**

GRANTURI nationale (lista selectiva)

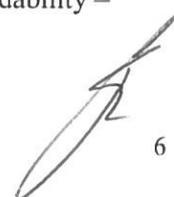
- **SISTEME SOCIO-TEHNICE REZILIENTE TOLERANTE LA ERORI/DEFECTĂRI**, cod CNCSIS 630/2007 (2007-2011)
METODE INOVATIVE DE EVALUARE ȘI CREȘTERE A DEPENDABILITĂȚII SISTEMELOR/REȚELELOR DE COMUNICAȚIE DE DATE, cod CNCSIS 304/2005 (2005-2007)
- **ARHITECTURI TOLERANTE LA DEFECTĂRI: SOLUȚII PENTRU MICRO ȘI NANO TEHNOLOGII**, cod CNCSIS 1432/2004 (2004-2006)
- 2005-2008, grant CNCSIS tip A, **METODE INOVATIVE DE EVALUARE SI CREȘTERE A DEPENDABILITĂȚII SISTEMELOR/REȚELELOR DE COMUNICATIE DE DATE** (10 participanti)
- 2002-2004, grant CNCSIS tip A, **ELENCA-IMPLEMENTAREA UNEI SOLUTII E-LEARNING PENTRU CALITATE CU SQL**, (12 participanti)
- 1999-2001, grant ANSTI tip CD, **METODE INOVATIVE IN VALIDAREA SI CREȘTEREA FIABILITĂȚII SISTEMELOR TEHNICE COMPLEXE (MEFISTO)**
- 1996-1998, Program ORIZONT 2000. Contract de cercetare stiintifica UP.Bucuresti-MCT, **TEHNICI INOVATIVE DE MONITORIZARE A CALITĂȚII SI FIABILITĂȚII SISTEMELOR ELECTRONICE PRIN INJECTIA DEFECTELOR**
- 1995-1997, Program ORIZONT 2000, Contract de cercetare stiintifica nr.836,tema A97 UP.Bucuresti-MCT, **PRODUSE INFORMATICE PENTRU ANALIZA FIABILITĂȚII SI MENTENABILITĂȚII SISTEMELOR COMPLEXE, CU APLICȚII LA INDUSTRIA ELECTRONICA**
- **1993 Fiabilitatea si securitatea sistemelor si a factorului uman**, contractul de cercetare stiintifica nr. 15-93-13, U.P.B-ICPE, Teme: Metodologii utilizate pentru analiza securitatii sistemelor de mare raspundere functionala. Fiabilitatea interactiunii om-masina. Modele pentru predictia performantelor operatorului uman
- 1986-1988, Contract de cercetare stiintifica nr.12-6-8/86, , I.P.Bucuresti-Combinatul Chimic Giurgiu, **CERCETARI STIINTIFICE PRIVIND CREȘTEREA FIABILITĂȚII ECHIPAMENTELOR UTILIZATE IN INDUSTRIA CHIMICA**,
- 1981 -1983, Contract de cercetare stiintifica nr.15-1-7/1981, I.P.Bucuresti - I.C.P.E., **PACHET DE PROGRAME DE CALCUL A FIABILITĂȚII SISTEMELOR ELECTRONICE COMPLEXE**,
- *Analiza de fiabilitate a proceselor tehnologice din industria chimica utilizand metoda diagramelor cauza-efect si metoda operarii evolutive (EVOP)*, contractul de cercetare nr. 12-6-8-III/86, I.P.Bucuresti - Centrul de Calcul Valcea, faza 1988.

◆ PRINCIPALELE LUCRARI PUBLICATE, CONTRIBUTII

• ARTICOLE

- **Ioan C. Bacivarov**, The Standard ISO 9001:2015. Changes and Challenges, Asigurarea Calității – Quality Assurance, Anul XXI, Numărul 81, Ianuarie-Martie 2015, pag. 2-7, ISSN 1224-5410
- Sabina-Daniela Axinte, Alice-Cristiana Alexandru, **Ioan C. Bacivarov**, **Angelica Bacivarov**, Quality Management Systems Implementation Based on Quality Function Deployment (QFD), Asigurarea Calității – Quality Assurance, Anul XXI, Numărul 82, Aprilie-Iunie 2015, pag. 2-8, ISSN 1224-5410
- Dorina Luminița Copaci, **I.C. Bacivarov**, On Design of Resilient Internet Communication Networks, Asigurarea Calității – Quality Assurance, Anul XXI, Numărul 82, Aprilie-Iunie 2015, pag. 26-32, ISSN 1224-5410
- **Ioan C. Bacivarov**, The Standard ISO 9001:2015 – A Milestone in the Evolution of Quality Management, Asigurarea Calității – Quality Assurance, Anul XXI, Numărul 83, Iulie-Septembrie 2015, pag. 2-4, ISSN 1224-5410
- Marian Firoiu, **Ioan C. Bacivarov**, CORAS – O platformă de analiză a riscului pentru sistemele critice, Asigurarea Calității – Quality Assurance, Anul XXI, Numărul 84, Octombrie-Decembrie 2015, pag. 16-23, ISSN 1224-5410
- Costel Ciuchi, **Angelica Bacivarov**, **Ioan Bacivarov**, Laura Iancu, “Evaluating the Survivability and Security of Complex Web Systems”, U.P.B. Scientific Bulletin, Series C – Electrical Engineering and Computer Science, Vol. 76, Issue 1, 2014, ISSN (print): 2286-3540, ISSN (online): 2286-3559
- **Ioan C. BACIVAROV**, “Nine decades of modern quality. Walter A. Shewhart – A life devoted to quality”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 78-85, ISSN 1842-3566
- Ionuț-Daniel BARBU, **Ioan BACIVAROV**, “The Heartbleed Bug – a vulnerability in the OpenSSL cryptographic library”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 100-109, ISSN 1842-3566
- Ioan-Cosmin MIHAI, **Ioan BACIVAROV**, Gabriel PETRICĂ, “Comparative study on cyber security assurance models”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 110-117, ISSN 1842-3566
- Virgil Liviu Mircea ILIAN, **Ioan C. BACIVAROV**, “Rethinking robotic arms for research: a reliable, high precision, low cost design”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 197-200, ISSN 1842-3566
- Costel CIUCHI, Angelica BACIVAROV, **Ioan BACIVAROV**, “On analysis of security and survivability of complex web systems”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 237-244, ISSN 1842-3566
- Constantin-Eugen CORNEL, **Angelica BACIVAROV**, **Ioan BACIVAROV**, “Software fault tree reliability analysis using a Java-based reliability library”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 245-250, ISSN 1842-3566
- Laura IANCU, **Ioan BACIVAROV**, “On security of mobile communication networks. A critical analysis of ZUC algorithm”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 251-258, ISSN 1842-3566
- **Ioan BACIVAROV**, Marian FIROIU, “New framework for security risks management and asset protection in the context of ISO 31000:2009 standard”, Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 278-287, ISSN 1842-3566

- Sabina-Daniela AXINTE, Alice-Cristiana ALEXANDRU, **Ioan BACIVAROV**, “Implementation of quality management system using QFD analysis”; Proceedings of the 14th International Conference on Quality and Dependability, Sinaia, Romania, September 17th–19th, 2014, pp. 288-293, ISSN 1842-3566
- Costel Ciuchi, **Angelica Bacivarov**, “Instrumente manageriale în asigurarea securității sistemelor informatice”, Revista “Asigurarea Calității – Quality Assurance”, nr. 73, Ianuarie-Martie 2013, pag. 2-7, ISSN 1224-5410
- R. Lupan, C. Robledo, **I. C. Bacivarov, Angelica Bacivarov**, “Quality Politics: Costs and Return of Investments”, Asigurarea Calității – Quality Assurance, Anul XIX, Numărul 75, Iulie-Septembrie 2013, pag. 14-22, ISSN 1224-5410
- **Angelica-Beatrice Bacivarov**, “Reliability Considerations at Nanometer Scale”, Asigurarea Calității – Quality Assurance, Anul XIX, Numărul 75, Iulie-Septembrie 2013, pag. 23-27, ISSN 1224-5410
- Cătălina Gherghina, **Angelica Bacivarov**, “Identification des défauts par la méthode de l’analyse de la signature”, Asigurarea Calității – Quality Assurance, Anul XIX, Numărul 76, Octombrie-December 2013, pag. 14-23, ISSN 1224-5410
- Laura Iancu, **Ioan Bacivarov**, “Encryption in Mobile Communications. ZUC Algorithm”, IJISC – International Journal of Information Security and Cybercrime, vol. II, no. 2, December 2013, pp. 7-18, ISSN 2285-9225
- Ioan-Cosmin Mihai, **Angelica Bacivarov, Ioan C. Bacivarov**, “On Virtual Machine Survivability Analysis”, Revista “Asigurarea Calității – Quality Assurance”, nr. 69, Ianuarie-Martie 2012, pag. 11-18
- Laura Iancu, **Ioan C. Bacivarov**, “Asupra securității rețelelor de comunicații mobile LTE”, Revista “Asigurarea Calității – Quality Assurance”, nr. 71, Iulie-Septembrie 2012, pag. 28-31
- Costel Ciuchi, Laura Iancu, Gabriel Petrică, **Ioan Bacivarov, Angelica Bacivarov**, “Asigurarea survivabilității sistemelor informatice complexe”, Revista “Asigurarea Calității – Quality Assurance”, nr. 72, Octombrie-December 2012, pag. 2-11
- Virgil L.M. Ilian, **Ioan C. Bacivarov**, “A Reliability Management Technique for Autonomous Robots”, Revista “Asigurarea Calității – Quality Assurance”, nr. 72, Octombrie-December 2012, pag. 26-28
- Virgil L.M. Ilian, **Ioan C. Bacivarov**, “Administration of Faults in an Autonomous Robot Using Leaky Integrators”, Revista “Asigurarea Calității – Quality Assurance”, nr. 72, Octombrie-December 2012, pag. 29-32
- Alin MIHALACHE, Fabrice GUERIN, Mihaela BARREAU, **Ioan BACIVAROV, Angelica BACIVAROV**, “Dependability Estimation of Mechatronic Systems”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 53
- Ioan-Cosmin MIHAI, **Ioan C. BACIVAROV**, “Analysis of the Main Types of Cyber Attacks in Romania”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 98
- Virgil L.M. ILIAN, **Ioan C. BACIVAROV**, “Using Leaky Integrators in the Administration of Faults in an Autonomous Robot”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 192
- Virgil L.M. ILIAN, **Ioan C. BACIVAROV**, “Fault Tree Analysis as a Reliability Management Technique in Autonomous Robots”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 196
- Ioan-Cosmin MIHAI, **Angelica BACIVAROV, Ioan C. BACIVAROV**, “Survivability Analysis Based on Attack Models”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 200



- Laura IANCU, **Ioan C. BACIVAROV**, “Researches Concerning Security in LTE (Long Term Evolution) Mobile Networks”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 289
- Costel CIUCHI, Laura IANCU, Gabriel PETRICĂ, **Ioan C. BACIVAROV**, “Development of a Decisional Strategy on Complex Systems Survivability”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 310
- **Angelica BACIVAROV, Ioan C. BACIVAROV**, “Strategies for the Implementation of Resilient High Functional Importance Socio-Technical Systems”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 330
- **Ioan C. BACIVAROV, Angelica BACIVAROV**, “Media Quality Management Certification. New Approaches”, QUALITY and DEPENDABILITY – PROCEEDINGS of the 13th International Conference in Quality and Dependability – CCF2012, Neptun, September 5th–7th, 2012, pag. 363
- **Angelica Bacivarov, Ioan C. Bacivarov**, “Cercetări privind reziliența sistemelor socio-tehnice”, Revista “Asigurarea Calității – Quality Assurance”, nr. 65, Ianuarie-Martie 2011, pag. 17-26
- Irina Adjudeanu, **Ioan Bacivarov, Angelica Bacivarov**, “Statistical Multivariate Process Control based on FNAD Methodology”, Revista “Asigurarea Calității – Quality Assurance”, nr. 67, Iulie-Septembrie 2011, pag. 9-13
- **I. C. Bacivarov, Angelica Bacivarov**, “Actualities and Perspectives in Mobile Communications”, Revista “Asigurarea Calității – Quality Assurance”, nr. 68, Octombrie-December 2011
- Sorin Voiculescu, Fabrice Guerin, **Ioan C. Bacivarov**, “A Study of Exponential-Arrhenius Model”, Revista “Asigurarea Calității – Quality Assurance”, nr. 66, pag. 26-32
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- **Contributii la dezvoltarea cunoasterii:**

In fiecare din aceste lucrari s-au adus **contributii** vizand intre altele:

- dezvoltarea unor metode originale de analiza si optimizare a dependabilitatii (sigurantei in functionare) a sistemelor de mare raspundere functionala, in general si a sistemelor de telecomunicatii, in particular;
 - dezvoltarea de noi modele in domeniul fiabilitatii software-ului
 - evaluarea si cresterea fiabilitatii si securitatii retelelor de telecomunicatii
 - managementul, asigurarea si ingineria calitatii
 - noi metodologii si fise de control a calitatii
 - strategii tehnice si manageriale pentru implementarea societatii informatonale (e-security,e-learning etc)
- **Contributii la dezvoltarea invatamantului:**
 - Programe de studii aprofundate/postuniversitare dezvoltate: Ingineria calitatii si fiabilitatii-studii aprofundate/ Fiabilitatea si mentenabilitatea sistemelor-cursuri postuniversitare
 - Noi discipline dezvoltate: *Ingineria si managementul calitatii si fiabilitatii sistemelor electronice, Managementul calitatii totale,etc*
 - Realizarea laboratorului "*Computer Aided Quality*" in facultatea Electronica Telecomunicatii si Tehnologia Informatiei -UPB prin programul TEMPUS; ulterior up-grade pentru calculatoarele din laborator, programe didactice de calculator pentru generarea vectorilor de test, analiza fiabilitatii sistemelor complexe

- **Relatii de colaborare internationale**

- Au fost stabilite relatii de colaborare cu colective din laboratoare de prestigiu din tarile UE. Astfel notam : Institut National Polytechnique Grenoble- laboratorul TIMA, ETH Zurich, ENSAM Paris, ISTIA Angers - Departement Qualite-Fiabilite; University of Paisley - Quality Center, COREP – Politechnica di Torino, Univesity Alberta, Lisbon, University ERASMUS Rotterdam, Olanda, Universidade Politehnica de Catalunya Barcelona, Spania
- 15 acorduri SOCRATES cu universitati din Franta, Olanda, Marea Britanie, Italia s.a. incheiate in calitate de coordonator ERASMUS/ SOCRATES al ETTI (2004-2016)
- ◆ Membru al mai multor *organizații profesionale internaționale, incluzând Institute of Electrical and Electronics Engineers (IEEE)- Reliability Society, Multinational Alliance for the Advancement of Organisational Excellence (MAAOE) si American Society for Quality (ASQ).*
- ◆ Mentionat in *Who's Who in the World* si *Who's Who in the Quality* (USA)

Prof.dr.ing. **Ioan Bacivarov**