



## Curriculum vitae



### Informații personale

Nume / Prenume **BIGAN Iulian - Cristin**  
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Fax(uri)  
E-mail(uri) **cbigan@yahoo.com**  
Naționalitate(-tăți) Romana  
Data nașterii 08.05.1969  
Sex M

**Locul de muncă / Domeniul ocupațional** **Profesor universitar, Universitatea Ecologica din Bucuresti / Invatamant superior si cercetare stiintifica**

### Experiența profesională

Perioada	<u>Aprilie 2012 - prezent</u>
Funcția sau postul ocupat	<b>DECAN, Profesor universitar dr ing. titular</b> , Universitatea Ecologica din Bucuresti, Facultatea de Inginerie manageriala ( <a href="http://www.ueb.ro/inginerie">www.ueb.ro/inginerie</a> )
Activități și responsabilități principale	Predare cursuri, conducere activitati laborator, cercetare stiintifica, coordonarea activitatii a membrilor Facultatii
Numele și adresa angajatorului	Universitatea Ecologica din Bucuresti
Tipul activității sau sectorul de activitate	Invatamant superior si cercetare stiintifica
Perioada	<u>2004 – 2012</u>
Funcția sau postul ocupat	<b>Profesor universitar dr. ing. titular</b> prin <b>Ordinul Ministrului nr 3895 / 25.05.2004 (pe baza propunerii CNADTCU din 07.04.2004)</b> , Sef de catedra / Director de departament Facultatea de Inginerie manageriala
Activități și responsabilități principale	Predare cursuri, conducere activitati laborator, cercetare stiintifica, coordonarea activitatii a 15 membri ai catedrei
Numele și adresa angajatorului	Universitatea Ecologica din Bucuresti
Tipul activității sau sectorul de activitate	Invatamant superior si cercetare stiintifica
Perioada	<u>1998 – 2004</u>
Funcția sau postul ocupat	<b>Conferentiar universitar dr. ing. titular</b> , Sef de catedra
Activități și responsabilități principale	Predare cursuri, conducere activitati laborator, cercetare stiintifica, coordonarea activitatii a 15 membri ai catedrei
Numele și adresa angajatorului	Universitatea Ecologica din Bucuresti
Tipul activității sau sectorul de activitate	Invatamant superior si cercetare stiintifica
Perioada	<u>1993 – 1998</u>
Funcția sau postul ocupat	Parcuregerea treptelor <b>de preparator, asistent si sef lucrari dr. ing. titular</b> ,
Activități și responsabilități principale	Predare cursuri, conducere activitati laborator, cercetare stiintifica
Numele și adresa angajatorului	Universitatea Ecologica Bucuresti
Tipul activității sau sectorul de activitate	Invatamant superior si cercetare stiintifica

Perioada  
 Funcția sau postul ocupat  
 Activități și responsabilități principale  
 Numele și adresa angajatorului  
 Tipul activității sau sectorul de activitate

1994 - 2009

**Cadru didactic asociat / din 1998 prin concurs la UPB**

Predare cursuri, conducere activitati laborator, cercetare stiintifica

**Universitatea Politehnica Bucuresti**, Facultatea de Automatica si Calculatoare (1994-1997), Facultatea de Electronica, telecomunicatii si tehnologia informatiei (1998-2009)

Invatamant superior si cercetare stiintifica

**Educație și formare**

Perioada  
 Calificarea / diploma obținută  
 Disciplinele principale studiate / competențe profesionale dobândite  
 Numele și tipul instituției de învățământ / furnizorului de formare  
 Nivelul în clasificarea națională sau internațională

1993-1997

**Diploma de Doctor Inginer**

Specialitatea: Electronica si Informatica Medicala

Titlul Tezei: „Prelucrarea biosemnalelor cu rețele neuronale artificiale” 1997

Programarea calculatoarelor, Sisteme electronice programabile, Informatica medicala, Baze de date si utilizarea lor in practica.

**Universitatea Politehnica din Bucuresti, Facultatea de Electronica, telecomunicatii si tehnologia informatiei**

Maxim (ISCED6)

Perioada  
 Calificarea / diploma obținută  
 Disciplinele principale studiate / competențe profesionale dobândite  
 Numele și tipul instituției de învățământ

1996-1997

**Stagiu de cercetare in vederea finalizarii tezei de doctorat**

Digital signal processing, Artificial Neural Networks, Medical Electronics Devices Design

**University of Nottingham, UK, Department of Electric and Electronics Engineering**

Perioada  
 Calificarea / diploma obținută  
 Disciplinele principale studiate / competențe profesionale dobândite  
 Numele și tipul instituției de învățământ / furnizorului de formare  
 Nivelul în clasificarea națională sau internațională

1988-1993

**Diploma in Inginerie Electronica si telecomunicatii (5 ani)**

Electronica, Programarea calculatoarelor, Sisteme electronice programabile, Informatica medicala

**Universitatea Politehnica din Bucuresti, Facultatea de Electronica, telecomunicatii si tehnologia informatiei**

Studii superioare de lunga durata

Perioada  
 Calificarea / diploma obținută  
 Disciplinele principale studiate / competențe profesionale dobândite  
 Numele și tipul instituției de învățământ / furnizorului de formare  
 Nivelul în clasificarea națională sau internațională

1993-prezent

Diplome/ certificate / de absolvire a unor cursuri postuniversitare, respectiv internationale

Informatica si automatica avansata, Inteligenta artificiala, Sisteme expert, Procesarea biosemnalelor

Universitati si consortii de universitati europene si americane, Institute de cercetari europene

european, international

**Aptitudini și competențe personale**

Limba(i) maternă(e)

romana

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (\*)

**Limba engleza**

**Limba franceza**

Înțelegere		Vorbire		Scriere	
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă	
C2	C2	C2	C2	C2	
C1	C1	C1	C1	C1	

(\*) Nivelul Cadrelui European Comun de Referință Pentru Limbi Străine

Competențe și abilități sociale	Formator de formatori, expert in educatia adultilor (diplome)
Competențe și aptitudini organizatorice	Experienta in conducerea colectivului de catedra, departament, facultate Experienta ca si coordonator grup de lucru in proiect european FP6
Competențe și aptitudini tehnice	Programare si utilizare calculatoare, electronica
Competențe și aptitudini de utilizare a calculatorului	Utilizare si Programare.
Competențe și aptitudini artistice	atestate
Alte competențe și aptitudini	manageriale
Permis(e) de conducere	Da
<b>Informații suplimentare</b>	<p>- <b><u>titular curs</u></b> la disciplinele <b>Informatică, Bazele Informaticii, Programarea calculatoarelor, Baze de date, Managementul sistemelor informationale, Internet in afaceri, Informatica manageriala, Modelare si simulare in cadrul Universitatii Ecologice din Bucuresti</b> la Facultatea de Inginerie Manageriala a UEB, Facultatea de Management Financiar (fosta de Stiinte economice) din UEB, Facultatea de Drept, Facultatea de Ecologie.</p> <p>si la disciplinele: Tehnologii informatice in afaceri, la masteratul Dreptul afacerilor, Informatica juridica la masteratul Conducere si organizare judiciara, Baze de date pt mediu si utilizarea acestora, la masteratul Ingineria si managementul mediului in activitatile industriale, Proiectarea sistemelor informatice, Sisteme informatice pentru asistarea deciziilor manageriale la masteratul Ingineria si managementul afacerilor in industrie.</p> <p><b><u>titular curs</u></b> la disciplinele: <b><u>Programarea calculatoarelor, Tehnici de programare / Structuri de Date si Algoritmi</u></b> la <b>Universitatea Politehnica din Bucuresti</b>, Facultatea de Electronica, telecomunicatii si tehnologia informatiei (<b>in perioada 1998-2009</b>)</p> <p>- <b><u>conducere proiecte de diploma si disertatie, membru in comisii de doctorat</u></b></p> <p><b>Activitatea științifică:</b></p> <ul style="list-style-type: none"> <li>- Cercetare științifică in domeniul informaticii, electronicii medicale, inteligenta artificiala, participarea la sesiuni de comunicări științifice, conferințe și congrese internaționale și publicarea de articole in reviste de specialitate inclusiv publicatii cotate ISI cu scor de influenta si factor de impact.</li> <li>- Organizator de evenimente stiintifice si tehnice unic sau in colaborare ca reprezentant al UEB.</li> <li>- Membru in comitetul stiintific al unor conferinte stiintifice internationale si reviewer (Orlando Multiconference IISC, European Comitee of Innovation and Entrepreneurship, MSE International Conf, Biopattern events, etc)</li> <li>- <b><u>Responsabil de Contract</u></b> la Contract în cadrul <b>FP6</b>,</li> </ul>

# LISTA DE LUCRARI ȘTIINȚIFICE ȘI DIDACTICE

Prof. univ. dr. ing. BIGAN Iulian - Cristin

## 1<sup>0</sup> TEZA DE DOCTORAT

**T1.** Bigan C., “*Prelucrarea Biosemnalelor cu Rețele Neuronale Artificiale*”, Teza de doctorat 1997 Universitatea Politehnica Bucuresti, Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei.

## 2<sup>0</sup> CĂRȚI PUBLICATE

### Ca - Cărți /cursuri (manuale) publicate in edituri recunoscute

**Ca1.** Cristin Bigan, Informatica, Editura Mustang **2012**, ISBN 978-606-8058-90-0

**Ca2.** Cristin Bigan, *Sisteme informatice*, Editura Bren, 151 pg., București, 2010,

**Ca3.** Valentin Panduru, Cristin Bigan, Ilie Catană, *Modelare și simulare*, Editura Bren, 189 pg., București, 2010, ISBN 978-973648-939-6.

**Ca4.** Bigan C. – Bazele informaticii Ed. Printech., Bucuresti 2009 ISBN 973-652-269-5

**Ca5.** Bigan C. Luca A, Programarea Calculatoarelor ed. Bren, Bucuresti 2005, ISBN 973-648-371-1.

**Ca6.** Bigan C. – Gestiunea Bazelor de date ed. Agerpress., Bucuresti 2001 ISBN 973-85228-1-1

**Ca7.** Bigan C. – Bazele informaticii Ed. Printech., Bucuresti 2000 ISBN 973-652-269-5

**Ca8.** Bigan C., Grigore O. - Tehnici de programare ed. Printech., Bucuresti 2000 ISBN 973-652-118-4

**Ca9.** Bigan C. - Programare in limbajul VBA ed. Printech., Bucuresti 2000 ISBN 973-652-153-2

**Ca10.** Bigan C. - Informatica – Ed. Printech., Bucuresti 1999 ISBN 973 - 652-048-x

**Ca11.** Bigan C., Armasu. I. – Bazele informaticii ed. UEB 1998

### Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

**Cb1.** Bigan C., Grigore O.– Programarea structurilor de date ed. Agerpress., Bucuresti 2001 ISBN 973-85228-03

**Cb2.** Bigan C. - Algoritmi, structuri si baze de date, ed. Leda&Muntenia, Constanta 1999 ISBN 973-98804-3-5 & ISBN 973-9286-32-1

**Cb3.** Bigan C. – Managementul informatiilor inregistrate electronic ed. Univers. Oradea, 1998 ISBN 973-9416-30-6.

## 3<sup>0</sup> ÎNDRUMARE

**I1.** Catana I., Panduru V. Bigan C., Catana D. - Elemente de Comanda si Actionare 1996 litografia UEB

**I2.** Catana I., Panduru V. Bigan C – Teoria Sistemelor Automate - 1995 litografia UEB

**I3.** Bigan C. - Îndrumar de laborator de Electronică UEB 1995

**I4.** Bigan C. - Îndrumar de laborator de Identificarea și modelarea proceselor folosind Matlab UEB 1994

- I5. Bigan C.** - Îndrumar de laborator de Traductoare și sisteme de achiziții de date UEB 1994  
**I6. Bigan C.** - Îndrumar de laborator de Informatică UEB 1993

#### 4<sup>0</sup> ARTICOLE / STUDII PUBLICATE

**Ris - Reviste de specialitate de circulație internațională recunoscute (cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).**

**Ris1.** B. W. Jervis, **C. Bigan**, M. W. Jervis, M. Besleaga, New-Onset Alzheimer's Disease and Normal Subjects 100% Differentiated by P300 - *American Journal of Alzheimer's Disease & Other Dementias*®, Volume: 34 issue: 5, page(s): 308-313 Issue published: August 1, 2019 Impact factor: 1,464.

**Ris2.** Cristina Maria Mihalache, **Cristin Bigan**, Valentin Panduru and Cristian Tsakiris, MODELLING OF NOISE REDUCTION FOR DATACENTRE BUILDINGS FIRE PROTECTION WITH INERT GAS SYSTEMS, 9th International Conference on Manufacturing Science and Education – MSE 2019 June 5-7, 2019, Sibiu, Romania MATEC Web Conf. în curs de indexare ca *ISI proceedings*

**Ris3.** Cristian Tsakiris, **Cristin Bigan** and Valentin Panduru, illumination of a production facility for communication and electric power cables, MSE 2017, Sibiu, Romania, 7-9 June 2017, MATEC Web Conf. **Volume** 121, 2017, 8<sup>th</sup> International Conference on Manufacturing Science and Education – MSE 2017 “Trends in New Industrial Revolution”, number of pages :8 <https://doi.org/10.1051/mateconf/201712110007> *ISI Proceedings*

**Ris4.** Larisa Ivascu, Lucian-Ionel Cioca, Matei Tamasila, Ilie Taucean, **Cristin Bigan**, Risk Management and an Approach for Introducing Functional Safety in the Development of Automotive E/E Systems, **29<sup>th</sup> IBIMA Conference Vienna, Austria, 3 - 4 May 2017 ISI Proceedings**

**Ris5.** **Cristin Bigan**, Higher Order Spectral Analysis of Alzheimer's Dementia Subjects P300 Responses, Journal of Neurology & Neurophysiology 2016, ISSN: 2155-9562 JNN, Volume 7, Issue 2 (Suppl) Page 80, <http://dx.doi.org/10.4172/2155-9562.C1.029>

**Ris6.** **Cristin Bigan**, Valentin Panduru, Optimisation of sun tracking positioning system schedule for solar energy farms, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL.13, ISSUE 2/2015 page 142-147 (<http://www.auif.utcluj.ro/ro/journal/68-volume-13-2015-issue-2.html>)

**Ris7.** J.BenAli, S.Abid, B.W. Jervis, F.Fnaiech, **C. Bigan**, M. Besleaga, Identification of early-stage Alzheimer's disease using SFAM neural network, *Neurocomputing* **2014**, <http://dx.doi.org/10.1016/j.neucom.2014.06.008> 0925-2312/& 2014 Elsevier B.V. Volume 143C, 2014, Pages 170-181

**Ris8.** J. M. Mihaila, **C. Bigan**, V. Panduru, Mathematical modelling of noise mapping at wind turbine farms, Applied Sciences, Vol. 16, 2014, pp. 49-56. Balkan Society of Geometers, GeometryBalkan Press **2014**.

**Ris9.** M. S. Woolfson, **C. Bigan**, J. A. Crowe, and B. R. Hayes-Gill Extraction of Correlated Sparse Sources from Signal Mixtures, Hindawi Publishing Corporation, ISRN Signal Processing, Volume **2013**, Article ID 218651, 17 pages, <http://dx.doi.org/10.1155/2013/218651>

**Ris10.** V. Sakkalis, T. Cassar, M. Zervakis, C. D. Giurcaneanu, **Cristin Bigan**, S. Michalopoulos, K. P. Camilleri, S. G. Fabri, E. Karakonstantaki and K. Michalopoulos A decision support framework for the discrimination of children with controlled epilepsy based

on EEG analysis Journal of NeuroEngineering and Rehabilitation nr 24 vol 10 pag.1743-1762, 2010

**Ris11.** B.W. Jervis, S. Belal, T. Cassar, M. Besleaga, **C. Bigan**, K. Michalopoulos, M. Zervakis, K. Camilleri and S. Fabri, *Waveform Analysis of Non-Oscillatory Independent Components in Single-Trial Auditory Event-Related Activity in Healthy Subjects and Alzheimer's Disease Patients*, Current Alzheimer Research, 2010, 7, 000-000 11567-2050/10 ©2010 Bentham Science Publishers Ltd. ISSN: 1567-2050 - Volume 7, 8 Issues, 2010

**Ris12.** M.S. Woolfson **C. Bigan**, J.A. Crowe and B.R. Hayes-Gill, Method to separate sparse components from signal mixtures, *Digital Signal Processing*, Volume 18, Issue 6, November 2008, Pages 985-1012 .

**Ris13.** Vangelis Sakkalis, Tracey Cassar, Michalis Zervakis, Kenneth P. Camilleri, Simon G. Fabri, **Cristin Bigan**, Eleni Karakonstantaki, and Sifis Micheloyannis, "Parametric and Nonparametric EEG Analysis for the Evaluation of EEG Activity in Young Children with Controlled Epilepsy," *Computational Intelligence and Neuroscience*, vol. 2008, Article ID 462593, 15 pages, 2008. doi:10.1155/2008/462593.

**Ris14.** Jervis, Barrie; Belal, Suliman; Camilleri, Kenneth; Cassar, Tracey; **Bigan, Cristin**; Linden, David E. J.; Michalopoulos, Kostas; Zervakis, Michalis; Besleaga, Mircea; Fabri, Simon; Muscat, Joseph - THE INDEPENDENT COMPONENTS OF AUDITORY P300 AND CNV EVOKED POTENTIALS DERIVED FROM SINGLE-TRIAL RECORDINGS, *Physiological Measurement Journal*, Volume 28, Issue 8, pp. 745-771 (2007).ISSN 0967-3334 (Print)ISSN 1361-6579 (Online)

**Ris15.** C. Goh, E. Ifeachor, G. Henderson, C. Latchoumane, J. Jeong, **C. Bigan**, M. Besleaga, N. Hudson, P. Capotosto and S. Wimalaratna, Characterisation of EEG at different stages of Alzheimer's disease (AD), *Clinical Neurophysiology*, Volume 117, Supplement 1, September 2006, Pages 138-139 ISSN: 1388-2457

**Ris16.** Ungureanu M., **Bigan C.**, Strungaru R., Lazarescu V. – Independent Component Analysis Applied in Biomedical Signal Processing, *Measurement Science Review*, Measurement in Biomedicine, on-line edition (Journal of the Institute of Measurement Science SAS), <http://www.measurement.sk>, vol. 4, Section 2, 2004, pp. 1-8, ISSN 1335-8871, BDI (Copernicus International), 8 pages, 1 col.

**Ris17.** **Bigan C.** , Woolfson M. - Time-frequency analysis of short segments of biomedical data, *IEE Proceedings Journal -Sci. Meas. Technol.*, vol 147, No.6 Nov. 2000 ISSN 1350-2344, pp. 368-373, 2000, (UK)

**Ris18.** **Bigan C.** , Strungaru R. - Computer based optical plot recognition of paper recorded biomedical signals, *Biomedizinische Technik Journal*, Band 45 Ergänzungsband 2, 2000 ISSN 0939-4990, pp.164-167, 2000(Germany)

27. **Bigan C.** , Woolfson M. - Decomposition and analysis of nonstationary EEG epochs, *Biomedizinische Technik Journal*, Band 45 Ergänzungsband 2, 2000 ISSN 0939-4990, pp.215-222, 2000 (Germany)

**Ris19.** **Bigan C.** , Woolfson M. - Analysis of short segments of biomedical data, *Proc. of International Conference on Advances in Medical Signal and Information Processing*, pp.150-157, Bristol, Sept. 2000, IEE conference publication no. 476, ISSN 0537-9989 , 2000 (U.K.)

**Ris20.** **Bigan, C.** - A System for neural networks and automatic identification of EEG epileptic events, in *Intelligent Methods in Healthcare and Medical Applications* IEE Control Division Digest no. 98/514 Oct. 1998 ISSN 0956-3385 (U.K)

**Ris21.** **Bigan C.** - "A Recursive Time-frequency Processing Method for Neural Networks Recognition of EEG Seizures" in *Neural Networks and Expert Systems in Medicine and Healthcare*, World Scientific, pp.67-73, ISBN 981-02-3611-5, Pisa, 1998 (Italy)

**Ris22.** Bigan C. , Strungaru R. - Analysing the Spectral Properties of EEG Ictal Events with Time-Frequency Transform , Proceedings of the Workshop “BiosignalVerarbeitung” July 1998 -MunchenBiomedizinische Technic Band 43 Ergänzungsband 3 1998 ISSN 0939 - 4990(Germany)

**Ris23.** Bigan C. , Strungaru R. - The Use Of Matlab For Colour Fuzzy Representation Of Multichannel EEG Short Time Spectra - Proceedings of the Workshop “BiosignalVerarbeitung” July 1998- MunchenBiomedizinische Technic Band 43 Ergänzungsband 3 1998 ISSN 0939 - 4990(Germany)

## **Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS**

**Rns1.** Bigan, C. - Signal dependent KL transform for ECG signals representation - Mathematics - Informatics ActaUniversitasApulensis reviewed by Mathematical Review and ZBL, no 2/2001 ISSN 1582 - 5329 pp.1-8, 2001

**Rns2.** Bigan C. - Implementareainteligenteiartificiale in produsele software pentruaplicatiimedicale - Revista Învățământului Superior - Forumnr 478-479-480 / 1999 pp. 76- 79, ISSN1222-6882, 1999

**Rns3.** Bigan C., Radu G.L. - Artificial Intelligence Based Methods for Human EEG Recordings Analysis - Journalof Medicine and Biochemistry vol.2, Number 1, 1998, pp. 47 - 54, ISSN 1453-1321

**Rns4.** Bigan C., Gheorghiu V. - Parametric Models for obtaining an instantaneous spectrum of the EEG signal - Rom Journal of Legal Medicine vol 6 number 1 March 1998 pp.47 ISSN 1221-8618

**Rns5.** Bigan, C. - Artificial Neural Networks for Human Brain Neural Networks Analysis - Rom Journal of Biological Sciences vol 1 no.5-6 ISSN 1453 - 5106.

**Rns6.** Bigan, C. , Gheorghiu V. - Color Dynamic Fuzzy Representation for Spectral Components of Multichannel E.E.G.- Rom Journal of Legal Medicine vol 5 no. 2 June 1997 pp.154 , ISSN 1221-8618

**Rns7.** Bigan C.- Înregistrarea de inalta calitate a semnalelor bioelectrice, Revista Învățământului Superior – Forum nr.7,1996 Bucuresti.

## **5<sup>o</sup> ARTICOLE/STUDII PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE**

### **VI. internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi)**

**Vi1.** C. Bigan, M. Besleaga, G. Cioca, "Higher Order Spectral Analysis of Alzheimer's Dementia Subjects P300 Responses", *5<sup>th</sup> World Congress on Neurology and Therapeutics*, March 14-16, 2016 London, UK, <http://www.neurologyconference.com/eposter/higher-order-spectral-analysis-of-alzheimer-s-dementia-subjects-p300-responses-neurology-2016>

**Vi2.** Cristin Bigan, Valentin Panduru, Optimisation of sun tracking positioning system skedule for solar energy farms, MSE International conference **2015** Sibiu, Romania pp.41.

**Vi3.** Cristin Bigan, Valentin Panduru, The Use Of Matlab For Wind Turbine Systems Noise Level Modeling And Simulation, Proceedings of the 6<sup>th</sup> international Conference MSE 2013, Sibiu, Romania, ISSN 1843-2522. pp. 135-138

**Vi4.** Valentin Panduru, Cristin Bigan, *Efficiency evaluation of air heat pumps use for romanian climate temperatures*, EUB-2013 Proceedings of the International Conference

Ecology of XXI Century - Challenges and Perspectives, April 4-5, 2013, Bucharest, România. ISBN 978-606-647-988-2 pp.410-422.

**Vi5.** Janina Mihaela Mihaila, Valentin Panduru, **Cristin Bigan**, *Noise level estimation from wind turbine system via modeling and software simulation*, EUB-2013 Proceedings of the International Conference Ecology of XXI Century - Challenges and Perspectives, April 4-5, 2013, Bucharest, România. ISBN 978-606-647-988-2 pp.423-431.

**Vi6.** **Cristin Bigan**, Valentin Panduru, *A Model based software for assessment of renewable energies in Bucharest*, EUB-2013 Proceedings of the International Conference Ecology of XXI Century - Challenges and Perspectives, April 4-5, 2013, Bucharest, România. ISBN 978-606-647-988-2 pp.397-409

**Vi7.** V. Panduru, I. Catana, **C. Bigan** Solar cells conversion optimisation by sun position tracking, 4-th European Conference H2 –Fuel-Millennium Convergence 2010 7pag ISBN 973-1704-17-5

**Vi8.** V. Panduru, **C. Bigan**, I. Catana, Alternative solutions for windpower energy, 4-th European Conference H2 –Fuel-Millennium Convergence 2010 9pag ISBN 973-1704-17-5

**Vi9.** Barrie Jervis, Suliman Belal, Kenneth Camilleri, Tracey Cassar, **Cristin Bigan**, David E J Linden, Kostas Michalopoulos, Michalis Zervakis, Mircea Besleaga, and Simon Fabri Applying ICA to single trial auditory P300 and CNV evoked potentials to provide biomarkers CIMED07 Plymouth UK July 2007.

**Vi10.** Cindy Goh, Emmanuel Ifeakor, Tracey Cassar, Charles-Francois V. Latchoumane, **Cristin Bigan**, Geoffrey, Henderson, Kenneth Camilleri, Simon Fabri, Jaeseung Jeong, Nigel Hudson, Paolo Capotosto, Sunil Wimalaratna and Mircea Besleaga

COMPARISON OF METHODS FOR EARLY DETECTION OF ALZHEIMER'S DISEASE CIMED07 Plymouth UK. July 2007.

**Vi11.** B. Jervis, S. Belal, K. Camilleri, T. Cassar, **C. Bigan**, D E Linden, K Michalopoulos, M Zervakis, M Besleaga, and S Fabri- The back-projected independent components of the auditory P300 evoked potential: possible biomarkers for brain diseases? CIMED07 Plymouth UK July 2007.

**Vi12.** Brahim Hamadicharef, Cindy Goh, Emmanuel C. Ifeakor, **Cristin Bigan**, Nigel Hudson - ONLINE TOOLS AND SERVICES FOR EARLY DIAGNOSIS AND CARE FOR ALZHEIMER'S DISEASE. CIMED07 Plymouth UK July 2007.

**Vi13.** **C. Bigan**, M. S. Woolfson, M. Besleaga- INDIVIDUAL RESPONSES OF P300 EVOKED POTENTIALS EXTRACTION FROM BACKGROUND EEG AS A POTENTIAL TOOL FOR SEPARATION OF ALZHEIMER DISEASED SUBJECTS FROM NORMALS. CIMED07 Plymouth UK July 2007.

**Vi14.** V. Sakkalis, M. Zervakis, **C. Bigan**, T. Cassar, K.P. Camilleri, S.G. Fabri, and S. Micheloyannis, V. Sakkalis, M. Zervakis, C. Bigan, T. Cassar, K.P. Camilleri, S.G. Fabri, and S. Micheloyannis, Validation of time-frequency and ARMA feature extraction methods in classification of mild epileptic signal patterns, ITAB conference Oct 2006.

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