



Personal information

Surname(s) / First name(s)	Alexandru-Petruț / Becheru
Address(es)	Str. Aurel Vlaicu, Nr. 12, Bl. 144, Ap. 5, Craiova, RO-200575, Romania
Email(s)	becheru@gmail.com, alexandru.becheru@c-s.ro
Nationality(-ies)	Romanian
Date of birth	April 1989
Gender	male
Web-Site	www.becheru.net

Work experience

Date	10.2014 – 09.2018
Occupation or position held	Teaching Assistant, University of Craiova, Romania
Laboratories held	Graph algorithms, Information Retrieval Algorithms, Programming techniques, C programming, Formal Languages & Automata
Date	10.2018 – Currently
Occupation or position held	Software Engineer, CS ROMANIA
Job Synopsis	Designer and integrator of mission critical systems

Education and training

Institution	"Stefan Odobleja" Computer Science High School, Craiova, Romania
Period	2004-2008
Institution	Faculty of Mathematics and Computer Science, University of Craiova, Romania
Period	2008-2011
Title of qualification awarded	B.Sc. in Computer Science
Institution	Faculty of Mathematics and Computer Science, University of Craiova, Romania
Period	2011 – 2013
Title of qualification awarded	M.Sc. in Artificial Intelligence
Institution	Universita degli Studi Roma 3, Rome, Italy
Period	October 2012 – March 2013
Title of qualification awarded	Erasmus academic exchange

Institution
Period
Title of qualification awarded

Faculty of Automation Computers & Electronics ,University of Craiova, Romania
2013 – Currently
Ph.D candidate in Network Science/Complex Networks

Personal skills and competences

Mother tongue(s)

Other language(s)

*Self-assessment
European level^(*)*

English
French
Italian

Social skills and competences

Organisational skills and competences

Computer skills and competences

Driving licence(s)

Romanian

English, French, Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C2	C2
B1	B2	B1	B2	B2
A2	A2	A2	A1	A2

^(*) Common European Framework of Reference (CEF) level

- very good communication skills with people of different nationalities obtained during the Erasmus project;
 - very good communication skills with students obtained while teaching university laboratories;
 - good communication skills with teenagers obtained as high school and university prom organiser ;
 - good communication skills with persons that have a handicap obtained as a volunteer;
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- good organisational skills gained as B.Sc. co-advisor at the Faculty of Automation Computers & Electronics ,University of Craiova, Romania;
 - good organisational skills gained as organiser of workshops for the Romanian Asociation for Artificial Intelligence (ARIA);
 - good organisational skills gained as student organiser of a computer science conferences;
 - good team-leading skills obtained as prom organiser;
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- Operating Systems: Mac OS X, Windows, Ubuntu, CentOS;
 - Programming languages: Python, C/C++, Turbo PASCAL, R, AutoIT, PROLOG;
 - Arhitecture design: Enterprise Architect;
 - Data Base systems: MySql, Oracle, Neo4j;
 - Version Control Systems: Git, SVN;
 - Office suites: Microsoft Office, IWork, LaTeX;
 - Other programs: Gephi, Weka, JFLAP;
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- B category

Academic information

Active member

- Intelligent Distributed Systems research group (ids.software.ucv.ro).
- Romanian Association For Artificial Intelligence (aria-romania.org).

Member of research grants

- October 2015 - September 2017 , "Platform for colobaborative learning based on social media instruments", Romanian Ministry of Education and Research, PN-II-RU-TE-2014-4-2604, director Conf.univ.dr.ing. Elvira Popescu.

Personal Grants

- October 2013 - September 2016, Ph.D research grant, subject: Complex Networks, domain: Computers and Information Technology, doctoral advisor: Prof.univ.dr.ing. Costin Badica, University of Craiova, Romania.
- April 2014 - October 2015, Ph.D research grant, supported by the strategic grant POS-DRU/159/1.5/2/133255. Project ID 133225(2014), cofinanced by the European Social Fund within the Sectorial Operational Program Human Resources Development 2007-2013.
- October 2017 - March 2019, QFORIT Ph.D research grant on *Developping an adaptic negotiation protocol based on Complex Networks' theory*

B.Sc. co-advisor

- Janina Ninetta Bratu, *Mobile Recommender System for Entertainment and Leisure based on Weather and Location*, Faculty of Automation Computers & Electronics, University of Craiova, Romania, 2015.
- Petre Mazilu, *Analysis of opinion trends from unstructured data with aplicability in online tourism*, Faculty of Automation Computers & Electronics, University of Craiova, Romania, 2016.

M.Sc. co-advisor

- Andreea Calota, *Development of an augmented visualisation application for investigating students' colaboration in an e-learning platform*, Faculty of Automation Computers & Electronics, University of Craiova, Romania, 2017.

Honors and Awards

- *First prize*, in the 3rd Scientific Communication Session, organised by the Computer Science Department, Faculty of Sciences, University of Craiova, 2011.
- *Most Valuable Project* In the Category „Innovation”, International Conference on Informatics Imagination, Creativity, Design, Development ICDD, Sibiu, Romania, April 26-28 2012.
- *Mention*, „STUDENT VISION” contest, organised by the Faculty of Sciences, within the Technical University of Cluj-Napoca, June 20th 2012.

Co-organiser

- *National (Romanian) Symposium of Scientific Communication*, Department of Informatics, Faculty of Sciences, University of Craiova, Romania, 2012
- *7'th Balkan Conference in Informatics*, Sinaia, Romania, 2-4 September, 2015
- *Young Researchers in Artificial Intelligence 2015 (Romanian: Tineri Cercetatori în Inteligența Artificială)* Workshop, Cluj-Napoca, Romania, 5-8 September, 2015
- *High School Programming Contest (Romanian: Concurs de programare pentru licee ProCon) - Constantin Belea*, Department of Computers and Information Technology, University of Craiova, Romania, May 2016
- *Young Researchers in Artificial Intelligence 2016 (Romanian: Tineri Cercetatori în Inteligența Artificială TiCIA)* Workshop, Sinaia, Romania, 1-3 August, 2016
- *2016 IEEE International Conference on INnovations in Intelligent SysTems and Applications*, Sinaia, Romania, 2-5 August, 2016

Publishing and participation

2012

Event/Journal	2nd International Conference on Informatics Imagination, Creativity, Design, Development ICDD, Sibiu, Romania, 26-28 April, 2012
Role(s)	Research paper author & Participant
Publication	<i>Optimization of Gear Changing using Simulated Annealing</i>
Event/Journal	Annals of the University of Craiova-Mathematics and Computer Science Series 39.2: 309-321, 2012
Role(s)	Research paper author
Publication	<i>Determine the number of twitter's user clusters</i>

2013

Event/Journal	3rd International Conference on Informatics Imagination, Creativity, Design, Development ICDD, Sibiu, Romania, 16-18 May, 2013
Role(s)	Research paper author & Participant
Publication	<i>Machine learning in gear changing</i>

2014

Event/Journal	4TH WORKSHOP ON APPLICATIONS OF SOFTWARE AGENTS - WASA 2014 Thessaloniki, Greece, June 2-4, 2014
Role(s)	Research paper author & Participant
Publication(s)	<i>Agile development methods through the eyes of Organisational Network Analysis</i>
Event/Journal	14th Workshop on Software Engineering Education and Reverse Engineering, Sinaia-Romania, 24-30 August 2014
Role(s)	Keynote speaker & Participant

Keynote(s)	<i>Network Science</i>
Event/Journal	The 7th International Conference on Knowledge Science, Engineering and Management KSEM 2014, Sibiu, Romania, 16–18 October 2014
Classification	B by CORE 2018
Role(s)	Research paper author & Participant
Publication(s)	<i>Complex Networks' Analysis Using an Ontology-Based Approach: Initial Steps</i>
CORE ranking	C
2015	
Event/Journal	5th International Workshop on Social Network Analysis, Anacapri, Capri island, Italy, 29-30 April, 2015
Role(s)	Participant
Event/Journal	19th IEEE International Conference on Computer Supported Cooperative Work in Design, Calabria, Italy, 6-8 May, 2015
Classification	B by CORE 2018
Role(s)	Research paper author & Participant
Publication(s)	<i>Organisational Network Analysis within the Academical World: Initial Steps and Initial Evaluation of an Ontology for Transport Brokering</i>
CORE ranking	B
Event/Journal	Workshop on Social Media and the Web of Linked Data at EUROLAN 2015 Summer School on Linguistic Linked Open Data 18 July 2015, Sibiu, Romania
Role(s)	Research paper author
Publication(s)	<i>Towards Social Data Analytics for Smart Tourism: A Network Science Perspective</i>
Event/Journal	15th Workshop on Software Engineering Education and Reverse Engineering, Bled-Slovenia, 24-30 August 2015
Role(s)	Keynote speaker & Participant
Keynote(s)	<i>Using Complex Networks to Understand Tourist Reviews</i>
Event/Journal	7'th Balkan Conference in Informatics, Sinaia, Romania, 2-4 September, 2015
Role(s)	Research paper author, Co-organiser & Participant
Publication(s)	<i>Tourist review analytics using complex networks and Communication and interaction in a multi-agent system devised for transport brokering</i>
2016	
Event/Journal	NESUS Winter School & PhD Symposium 2016, Timisoara, Romania, 8-11 February, 2016
Role(s)	Research paper author & Participant
Publication	<i>A Framework for Knowledge Management using Complex Networks Methods</i>
Event/Journal	International Summer School on Web Science and Technology, Bilbao, Spain, 18-22 July, 2016
Role(s)	Participant

Event/Journal	The 16th IEEE International Conference on Advanced Learning Technologies - ICALT2016, Austin, Texas, USA, 25-28 July, 2016
Role(s)	Research paper author
Publication(s)	<i>Predicting Student Performance and Differences in Learning Styles based on Textual Complexity Indices applied on Blog and Microblog Posts. A Preliminary Study</i>
CORE ranking	B
Event/Journal	2016 International Symposium on INnovations in Intelligent SysTems and Applications, Sinaia, Romania, 2-5 August 2016
Role(s)	Research paper author, Co-organiser & Participant
Publication(s)	<i>Polarity Shifting for Romanian Sentiment Classification</i>
CORE ranking	C
Event/Journal	16th Workshop on Software Engineering Education and Reverse Engineering, Jahorina-Bosnia & Berzegovina, 22-27 August 2016
Role(s)	Keynote speaker & Participant
Keynote(s)	<i>Online Resources for Teaching Programming to First Year Students</i>
Event/Journal	11th European Conference On TECHNOLOGY Enhanced Learning
Role	Research paper author
Publication(s)	<i>Predicting Academic Performance Based on Students' Blog and Microblog Posts</i>
Event/Journal	18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing SYNASC'16, Timisoara, Romania, 24-27 September, 2016
Role(s)	Research paper author & Participant
Publication(s)	<i>Automanted Negotiation Framework for the Transport Logistics Service</i>
CORE ranking	C
2017	
Event/Journal	18th INTERNATIONAL CARPATHIAN CONTROL CONFERENCE ICC'C'2017, Sinaia, Romania, 28-31 May, 2017
Role(s)	Research paper author & Participant
Publication(s)	<i>Design of a Conceptual Knowledge Extraction Framework for a SocialLearning Environment based on Social Network Analysis Methods</i>
Event/Journal	Revista Romana de Interactiune Om-Calculator 10 (4) 2017, 299-330
Role(s)	Author
Publication(s)	<i>Romanian tourism portal analysis through naturallanguage processing, network science and graph database methods</i>
Event/Journal	14th Workshop on Agents for Complex Systems in the framework of SYNASC 2017 19th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, 21-24 September, 2017
Role(s)	Research paper author & Participan
Publication(s)	<i>Integration of Jason Reinforcement Learning Agents into an Interactive Application</i>
CORE ranking	C

Event/Journal	21st International Conference on System Theory, Control and Computing ICSTCC 2017, Sinaia, Romania, 19-21 October, 2017
Role(s)	Research paper author & Participan
Publication(s)	<i>Using Social Network Analysis to Investigate Students' Collaboration Patterns in Emuse Platform</i>

2018

Event/Journal	Book chapter, Challenges and Solutions in Smart Learning
Role(s)	Author
Publication(s)	<i>StudentViz: A Tool for Visualizing Students' Collaborations in a Social Learning Environment</i>

Event/Journal	Journal, Smart Learning Environments
Role(s)	Author
Publication(s)	<i>Analyzing students' collaboration patterns in a social learning environment using StudentViz platform</i>

2019

Event/Journal	International Conference on Computational Science - ICCS 2019, Faro, Algarve, Portugal, 14-16 June, 2019
Role(s)	Research paper author & Participan
Publication(s)	<i>Augmenting Multi-Agent Negotiation in Interconnected Freight Transport Using Complex Networks Analysis</i>
CORE ranking	A

Co-authors	Prof.univ.dr.ing. Costin Badica, University of Craiova, Romania Prof.univ.dr. Scott Crossley, Georgia State University, USA Prof.univ.dr. Stefan Trausan-Matu, Politehnica University of Bucharest, Romania Prof.univ.dr.ing. Elvira Popescu, University of Craiova, Romania Conf.univ.dr. Catalin Stoean, University of Craiova, Romania Conf.univ.dr. Mihaela Colhon, University of Craiova, Romania Conf.univ.dr.ing. Mihai Dascalu, Politehnica University of Bucharest, Romania Asist.univ.drd.ing. Andrei Mocanu, University of Craiova, Romania Asist.univ.drd. Lucian Luncean, Romanian-German University of Sibiu, Romania
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Additional information

Personal interests

Computer Science, History, Space Exploration, Foreign Policy

Preferred Romanian author

Neagu Djuvara

Preferred international author

Carl Sagan