


## PERSONAL INFORMATION

**Silviu-Ioan BEJINARIU**

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## OVERVIEW

Silviu-Ioan BEJINARIU is Senior Researcher II at the Institute of Computer Science, Romanian Academy, Iași Branch. He obtained in 1984 the BS degree in Computer Science at Faculty of Mathematics, "Alexandru Ioan Cuza" University from Iași, Romania, and the Ph.D. degree in Electronic Engineering and Telecommunications at School of Advanced Studies of the Romanian Academy in 2013. He has more than 35 years of experience in: Image processing, Computer vision, Geographic Information Systems, Geolinguistics, and Software development. He has published over 75 articles and papers in international journals or conferences. He received the "Gheorghe Cartianu" Romanian Academy Prize, in Information Science and Technology domain in 2013 and "Octav Mayer" Prize given by the Iași Branch of the Romanian Academy in 2006.

## WORK EXPERIENCE

04/2021 – present

**Senior Researcher II (part time)**

"Iorgu Iordan-Alexandru Rosetti" Institute of Linguistics of the Romanian Academy, Bucharest, Romania

<https://lingv.ro/>

- Design and implementation of the software for the ALDRO linguistic atlas publishing, as part of the project PN-III-P4-ID-PCE-2020-0451, RODIAL – Romanian Dialects from the North and South of the Danube in an European Context

Research and Development, Information Technology

07/2019 – present

**Senior Researcher II**

12/1990 – 06/2019

**Senior Researcher III**

07/1990 – 12/1990

**Software engineer**

Institute of Computer Science, Romanian Academy Iasi Branch

<http://iit.academiaromana-is.ro/index.html>

Research within the fundamental or interdisciplinary research projects of the Romanian Academy. Most of them are related to:

- Video analysis techniques for human locomotion classification, medical rehabilitation,
- Linguistic atlases modeling, based on the Geographic Information Systems concept,
- Nature-inspired optimization algorithms with applications in image processing,
- Methods and algorithms for image processing: biomedical - retinal images, RADAR satellite images, sonar images, microscopy,
- Image fusion,
- 3D reconstruction and 3D visualization techniques,
- Parallel and distributed computing,
- Methods for optical recognition of musical scores, coding and information processing.

Research and Development, Information Technology

- 11/2004 – 09/2011**      **Software engineer (part time)**  
**S.C. DataInvest S.R.L. Iasi**  
 - developed software components for the NetSET Map package, the first Romanian GIS platform  
*Research and Development, Information Technology*
- 02/1986 – 06/1990**      **Software engineer**  
**Institute for Scientific Research and Technological Engineering for Calculation Technologies and Informatics (ICSIT-TCI), Bucuresti, Iasi Branch**  
 - developed cross-assemblers for Zilog Z8001 and Motorola MC68000 microprocessors in C,  
 - developed image processing applications for metalography analysis in Z8000 assembly.  
*Research and Development, Information Technology*
- 09/1984 – 01/1986**      **Software engineer**  
**“Relee” Enterprise, Mediaş, jud. Sibiu**  
 - PLUP application implementation (Preparation, launch and tracking of production),  
 - Programming in COBOL, ASSIRIS, SCF databases.  
*Industry*

**EDUCATION**

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- 06/2014 – 09/2015**      **Postdoctoral fellowship within the POSDRU project 133675, IDSRC - doc postdoc**  
**Institute for Economic and Social Research “Gh. Zane”, Romanian Academy Iasi Branch**
- 11/2009 – 09/2013**      **PhD in Electronics Engineering and Telecommunications**  
**School of Advanced Studies of the Romanian Academy**  
 PhD thesis entitled: *Contributions to improve methods and applications of data fusion in multidimensional information processing*  
 Scientific Advisor: Acad. *Horia-Nicolai Teodorescu*
- 09/1980 – 06/1984**      **BS degree in Mathematics, specialization Computer Science**  
**Faculty of Mathematics, "Al. I. Cuza" University from Iasi, Romania**

**PERSONAL SKILLS**

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**Mother tongue**      **Romanian**

English	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	B1	B1	B1	B1	B1

**Communication skills**      - Teamwork, organizational spirit.

**Organisational / managerial skills**

- Coordination of scientific activity in the "Professor Dan Gâlea" Image Processing team at Institute of Computer Science, Romanian Academy Iasi Branch,
- Member of the organizing, scientific or programme committees of several international conferences,
- Reviewer for several journals and international conferences.

**Computer skills**

- Image processing, Computer vision,
- Nature-inspired optimization algorithms,
- Geographic Information Systems, Atlases modeling, QGIS, NetSET Map,
- Parallel computing,
- 2D/3D Graphics, OpenGL,
- Programming: C/C++, MFC, OpenCV, wxWidgets, Microsoft Office Automation,
- Matlab,
- Python,
- Databases: Microsoft SQL Server, MySQL, ODBC, DAO,
- Microsoft Office.

**Driving licence**

- B

**ADDITIONAL INFO****Publications**

- over 55 publications / articles indexed in ISI Web of Science,
- over 20 articles indexed in international databases,
- over 70 participations at international conferences.

See: <https://sites.google.com/site/silviubejinariu/research-activity/publications>

**Projects**

- Team member or responsible in over 15 national / international projects and Fundamental projects of the Romanian Academy.

See: <https://sites.google.com/site/silviubejinariu/research-activity/grants>

**Honors and awards**

- Romanian Academy Prize "Gheorghe Cartianu", in Information Science and Technology domain for 3 papers published in 2011, 19 December 2013,
- "Octav Mayer" Prize given by the Romanian Academy, Iasi Branch, in 2006 for the project "Software applications for the Romanian Linguistic Atlases Publishing", 8 September 2006.

**Applications registered at  
Romanian Office for Copyright  
(ORDA)**

- ORDA: Nr. 2986 / 01.04.2013, "Optical disk detection in fundus images - RETINAL-DetDO" (team member),
- ORDA: Nr. 14625 / 30/11.2011, "Computer programs for Spline functions Modelation and Fuzzy Interpolators /Extrapolators of Wave Attenuation according to wavelength and atmospheric visibility" (team member),
- ORDA: Nr. 2932 / 08.04.2009, "Information System for Computer Aided Design and Editing of the Drawings for the Romanian Linguistic Atlas by Regions, Moldova and Bucovina and Dialectal Texts Editing" (team member).