

Ovidiu-Andrei SCHIPOR

Current Position

Associate Professor of
Computer Science

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Research Profiles

[ACM](#)

[Research Gate](#)

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[ORCID](#)

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Personal

Married (2002)
Two children (2006, 2008)

Summary

As an Associate Professor of Computer Science at "Ștefan cel Mare" University of Suceava, Romania, I specialize in Human-Computer Interaction with a focus on Assistive Technologies, based in the *Machine Intelligence and Information Visualization Research Lab*. I serve as the Director of the *Cloud-USV Center*, striving to augment USV's computational capabilities to boost scientific competitiveness. As the Head of the *Computer Department*, I am committed to fostering a collaborative and innovative team, believing it to be a challenging and fulfilling endeavor.

Academic Experience

Associate Professor in Computer Science, since 2017

Faculty of Electrical Engineering and Computer Science
"Ștefan cel Mare" University of Suceava, Romania
Teaching: Web Technologies, Cloud Technologies
Research: Assistive Technologies

Lecturer in Computer Science, 2009 - 2017

Faculty of Electrical Engineering and Computer Science
"Ștefan cel Mare" University of Suceava, Romania
Teaching: Data Structures, Programming Languages
Research: Human-Computer Interaction

Assistant Professor in Computer Science, 2004 - 2009

Faculty of Electrical Engineering and Computer Science
"Ștefan cel Mare" University of Suceava, Romania
Teaching: Programming Languages, Computer Networks
Research: Systems for Speech Therapy

Education

Habilitation in Computer Science, from 2023

"Ștefan cel Mare" University of Suceava, Romania
Designing for Accessibility in Human-Computer Interaction

Ph.D. in Computer Science, from 2009

"Ștefan cel Mare" University of Suceava, Romania
*Contribution to the Development of Computer Based
Speech Therapy System*
Advisor: Prof. Ștefan-Gheorghe Pentiu

Engineer Diploma in Computer Science, 1998 - 2003

Faculty of Electrical Engineering and Computer Science
"Ștefan cel Mare" University of Suceava, Romania

19.01.2024

Research Projects

- 1. MERITT – Health and Active Aging through Serious Games and Artificial Intelligence**
Funded by UEFISCDI, Romania (PN3-P2-1177/30.06.2022, 97PTE/2022)
Principal Investigator together with Dorin Stanciu (IT Center for Science and Technology, Bucharest), 2022 – 2024
- 2. Cloud USV**
Funded by European Fund Regional Development (POC, SMIS 2014+ 124530)
<https://usv.ro/centru-interdisciplinar-cdi-de-tip-cloud-si-infrastructura-masiva-de-date-la-universitatea-stefan-cel-mare-din-suceava/>
Coordinator, 2021 - 2023
- 3. Sensorimotor Realities**
Funded by UEFISCDI, Romania (PN-III-P4-ID-PCE-2020-0434; PCE29/2021)
<http://www.eed.usv.ro/mintviz/projects/SensorimotorRealities>
Researcher, 2021 - 2023
- 4. WearSkill: Motor-Streamlined Interactions with Smart Wearables**
Funded by UEFISCDI, Romania (PN-III-P2-2.1-PED-2019-0352, 276PED/2020)
<http://www.eed.usv.ro/mintviz/projects/WearSkill>
Researcher, 2020 - 2022
- 5. Sensory Augmentation for Low-Vision Conditions using Smart Wearables**
Funded by UEFISCDI, Romania (PN-III-P1-1.1-TE-2016-2173, TE141/2018)
<http://www.eed.usv.ro/mintviz/projects/Senses++>
Researcher, 2018 - 2020
- 6. Efficient Communications based on Smart Devices for In-Car Augmented Reality Interactive Applications**
Funded by UEFISCDI, Romania (PN-III-P1-1.2-PCCDI-2017-0917, 21PCCDI/2018)
<http://carsafe.cerva.ro/en>
Researcher, 2018 - 2020
- 7. New Interaction Techniques for Smart Environments at the Periphery of User Attention**
Funded by UEFISCDI, Romania (PN-III-P3-3.1-PM-RO-CN-2018-0032, 3BM/2018) & Ministry of Science and Technology, China
<http://www.eed.usv.ro/mintviz/projects/PeriphInt>
Researcher, 2018 - 2019
- 8. MotorSkill: Effective Gesture Interactions with Touch Surfaces for Motor Impairment Conditions**
Funded by UEFISCDI, Romania (PN-III-P2-2.1-PED-2016-0688, 209PED/2017)
<http://www.eed.usv.ro/mintviz/projects/MotorSkill>
Researcher, 2017 - 2018
- 9. Interaction Techniques with Massive Data Clouds in Smart Environments**
Funded by UEFISCDI, Romania (PNIII-P3, 47BM/16) & Ministry of Science and Technology, China
<http://www.eed.usv.ro/mintviz/projects/InteractCloud>
Researcher, 2016 - 2017
- 10. Mobility pattern assistant for elderly people**
Funded by UEFISCDI, Romania (PN-II-PT-PCCA-2013-4-22410, 315/2014)
<http://aimas.cs.pub.ro/mobile-old/>
Principal Investigator together with Irina Mocanu (Politehnica University Bucharest), 2014 - 2017
- 11. Multimodal Feedback for Supporting Gesture Interaction in Smart Environments**
Funded by UEFISCDI, Romania & OeAD, Austria (PNII, 740/2014)
<http://www.eed.usv.ro/mintviz/projects/LifeStage>
Researcher, 2014 - 2015
- 12. Improving Computer Based Speech Therapy Systems by Adding Affective Capabilities**
Funded by European Union (POSDRU/89/1.5/S/57083)
<http://www.usv.ro/pride/>
Post-Doctoral Scholarship, 2010 - 2013
- 13. Personalized therapy of dyslalia affecting pre scholars**
Funded by UEFISCDI, Romania (56-CEEX II03/2006)
<http://www.eed.usv.ro/mintviz/projects/LifeStage>
Researcher, 2007 - 2009

Articles in Journals

1. Pamparău, C., Schipor, O. A., Dancu, A., & Vatavu, R. D. (2023). SAPIENS in XR: operationalizing interaction-attention in extended reality. *Virtual Reality*, 1-17.
IF=4.20, Q1
2. Schipor, O. A., & Vatavu, R. D. (2023). GearWheels: A Software Tool to Support User Experiments on Gesture Input with Wearable Devices. *International Journal of Human-Computer Interaction*, 39(18), 3527-3545.
IF=4.70, Q1
3. Vatavu, R. D., Rusu, P. P., Schipor, O.A. & Schipor, M. D. (2021). Preferences of people with visual impairments for augmented and mediated vision: A vignette experiment. *Multimedia Tools and Applications*
IF=2.757, Q2
4. Schipor, O.A., Vatavu, R. D. (2021). Empirical Results for High-definition Video and Augmented Reality Content Delivery in Hyper-connected Cars. *Interacting with Computers*.
IF=1.036
5. Popovici, I., Schipor, O. A., & Vatavu, R. D. (2019). Hover: Exploring cognitive maps and mid-air pointing for television control. *International Journal of Human-Computer Studies*, 129, 95-107.
IF=2.006, Q2
6. Schipor, O. A., Vatavu, R. D., & Vanderdonckt, J. (2019). Euphoria: A Scalable, event-driven architecture for designing interactions across heterogeneous devices in smart environments. *Information and Software Technology*, 109, 43-59.
IF=2.921, Q1
7. Schipor, O. A., & Vatavu, R. D. (2018). Invisible, inaudible, and impalpable: users' preferences and memory performance for digital content in thin air. *IEEE Pervasive Computing*, 17(4), 76-85.
IF=3.813, Q1
8. Mocanu, I., Schpor, O. A., Cramariuc, B., & Rusu, L. (2017). Mobile@ Old: A Smart Home Platform for Enhancing the Elderly Mobility. *Adv. in Electrical and Computer Engineering*, 17(4), 19-27.
IF=0.650
9. Schipor, O. A., Wu, W., Tsai, W. T., & Vatavu, R. D. (2017). Software architecture design for spatially-indexed media in smart environments. *Advances in Electrical and Computer Engineering*, 17(2), 17-23.
IF=0.650
10. Schipor, O. A., Pentiu, S. G., & Schipor, M. D. (2012). Automatic assessment of pronunciation quality of children within assisted speech therapy. *Engineering, Electrical & Electronic*, 122(6), 15-18.
IF=0.684
11. Schipor, O. A., Pentiu, S. G., & Schipor, M. D. (2012). Toward Automatic Recognition of Children's Affective State Using Physiological Parameters and Fuzzy Model of Emotions. *Advances in Electrical and Computer Engineering*, 12(2), 47-50.
IF=0.650
12. Schipor, O. A., Pentiu, S. G., & Schipor, M. D. (2011). The utilization of feedback and emotion recognition in computer based speech therapy system. *Engineering, Electrical & Electronic*, 109(3), 101-104.
IF=0.684
13. Danubianu, M., Pentiu, S. G., Schipor, O. A., & Tobolcea, I. (2010). Advanced Information Technology-support of improved personalized therapy of speech disorders. *International Journal of Computers Communications & Control*, 5(5), 684-692.
IF=1.585
14. Pentiu, S. G., Tobolcea, I., Schipor, O. A., Danubianu, M., & Schipor, D. M. (2010). Translation of the speech therapy programs in the Logomon assisted therapy system. *Advances in Electrical and Computer Engineering*, 10(2), 48-52.
IF=0.650
15. Schipor, M. D., Pentiu, S. G., & Schipor, O. A. (2010). End-User Recommendations on LOGOMON-a Computer Based Speech Therapy System for Romanian Language. *Advances in Electrical and Computer Engineering*, 10(4), 57-60.
IF=0.650
16. Schipor, O. A., Pentiu, S. G., & Schipor, M. D. (2012). Improving computer based speech therapy using a fuzzy expert system. *Computing and Informatics*, 29(2), 303-318.

IF=0.421

17. Pentiuc, S. G., Schipor, O. A., Danubianu, M., Schipor, M. D., & Tobolcea, I. (2010). Speech Therapy Programs for a Computer Aided Therapy System. *Engineering, Electrical & Electronic*, 103(7), 87-90.

IF=0.684

Papers in Conferences

1. Vatavu, R. D., Schipor, O. A. (2022). Formalizing Digital Proprioception for Devices, Environments, and Users. In: Novais, P., Carneiro, J., Chamoso, P. (eds) *Ambient Intelligence – Software and Applications – 12th International Symposium on Ambient Intelligence. ISAmI 2021. Lecture Notes in Networks and Systems*, vol 483. (Springer)
2. Schipor, O. A., Bilius, L. B., Ungurean, O. C., Șiean, A. I., Andrei, A. T., & Vatavu, R. D. (2022, April). Personalized wearable interactions with WearSkill. In *Proceedings of the 19th International Web for All Conference* (pp. 1-2).
3. Schipor, O. A., Bilius, L. B., & Vatavu, R. D. (2022, April). WearSkill: personalized and interchangeable input with wearables for users with motor impairments. In *Proceedings of the 19th International Web for All Conference* (pp. 1-5).
4. Schipor, O. A., & Vatavu, R. D. (2021, May). Software Architecture Based on Web Standards for Gesture Input with Smartwatches and Smartglasses. In *20th International Conference on Mobile and Ubiquitous Multimedia* (pp. 186-188).
5. Aiordăchioae, A., Schipor, O. A., & Vatavu, R. D. (2020, May). An Inventory of Voice Input Commands for Users with Visual Impairments and Assistive Smartglasses Applications. In *2020 International Conference on Development and Application Systems (DAS)* (pp. 146-150). IEEE.
6. Schipor, O. A., & Aiordăchioae, A. (2020, May). Engineering Details of a Smartglasses Application for Users with Visual Impairments. In *2020 International Conference on Development and Application Systems (DAS)* (pp. 157-161). IEEE.
7. Schipor, O. A., Vatavu, R. D., & Wu, W. (2019, October). Integrating Peripheral Interaction Into Augmented Reality Applications. In *2019 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)* (pp. 358-359). IEEE.
8. Schipor, O. A., & Vatavu, R. D. (2019). Towards Interactions with Augmented Reality Systems in Hyper-Connected Cars. *HCI Engineering – Methods and Tools for Advanced Interactive Systems and Integration of Multiple Stakeholder Viewpoints*, Valencia, Spain, June 18, 2019.
9. Schipor, O. A., Vatavu, R. D., & Wu, W. (2019). Sapiens: Towards software architecture to support peripheral interaction in smart environments. *Proceedings of the ACM on Human-Computer Interaction*, 3(EICS), 1-24.
10. Gherman, O., Schipor, O., & Gheran, B. F. (2018, May). VErGE: A system for collecting voice, eye gaze, gesture, and EEG data for experimental studies. In *2018 International Conference on Development and Application Systems (DAS)* (pp. 150-155). IEEE.
11. Mocanu, I., & Schipor, O. A. (2017). A serious game for improving elderly mobility based on user emotional state. In *The International Scientific Conference eLearning and Software for Education (Vol. 2, p. 487)*. "Carol I" National Defence University.
12. Schipor, O. A., & Mocanu, I. (2016). Making E-Mobility Suitable for Elderly. In *The International Scientific Conference eLearning and Software for Education (Vol. 1, p. 283)*. "Carol I" National Defence University.
13. Schipor, M. D., & Schipor, O. A. (2015). Building E-PET - Could Emotions Personal Trainer Become a Reality?. In *The International Scientific Conference eLearning and Software for Education (Vol. 1, p. 581)*. "Carol I" National Defence University.
14. Schipor, O. A. (2014). Improving computer assisted speech therapy through speech-based emotion recognition. In *Conference proceedings of» eLearning and Software for Education «(eLSE) (No. 01, pp. 101-104)*. "Carol I" National Defence University Publishing House.
15. Schipor, O. A., Pentiuc, S. G., & Schipor, M. D. (2011, May). Towards a multimodal emotion recognition framework to be integrated in a Computer Based Speech Therapy System. In *2011 6th Conference on Speech Technology and Human-Computer Dialogue (SpeD)* (pp. 1-6). IEEE.
16. Schipor, O. A., Schipor, D. M., & Crîșmariu, E. (2013). Measuring similarities between external and self emotion evaluation in the case of assisted speech therapy of children. *Procedia-Social and Behavioral Sciences*, 84, 754-758.

17. Schipor, O. A., Pentiuc, S. G., & Schipor, M. D. (2011). Using a Fuzzy Emotion Model in Computer Assisted Speech Therapy. In Third International Conference on Software, Services and Semantic Technologies S3T 2011 (pp. 189-193). Springer, Berlin, Heidelberg.
18. Schipor, O. A., & Schipor, M. D. (2009). The Attitude of the Education Community on the Computer Base Speech Therapy Systems. In Proceedings of Educational Sciences–Dynamic and Perspectives Conference (pp. 330-336).
19. Schipor, O., Giza, F., Pentiuc, S., Belciug, C., & Nestor, T. (2009). Software package with exercises for therapy of children with dyslalia. Optoelectronic information and energy tech., (1), 17.
20. Pentiuc, S., Schipor, O., Danubianu, M., & Schipor, M. (2008). Automatic Recognition of Dyslalia Affecting Pre-Scholars. Ecumict-2008, Gent, Belgium, ISSB, 317-326.
21. Schipor, O. A., Pentiuc, S. G., Schipor, M. D. (2008), Knowledge Base of an Expert System Used for Dyslalic Children Therapy, In 2018 Int. Conference on Development and Application Systems (DAS), pp. 305-308.

Books and Chapters

1. Fundamentals of Front-End Web Development. A Study Guide, "Stefan cel Mare" University of Suceava Press, 2022, Schipor Ovidiu-Andrei
2. Pentiuc, S.G., Schipor, O.A. (2021). Structuri de date și algoritmi. Ghid de lucrări practice, Editura Universității Ștefan cel Mare din Suceava
3. Schipor, O., Geman, O., Chiuchisan, I., & Covasa, M. (2016). From fuzzy expert system to artificial neural network: Application to assisted speech therapy. Artificial Neural Networks: Models and Applications.
4. Schipor, O., Gîză-Belciug, F. (2014). Sisteme Expert Fuzzy - teorie și aplicații în domeniul terapiei asistate a tulburărilor de pronunție, MatrixROM, ISBN 978-606-25-0078-8.
5. Gîză-Belciug, F., Turcu, C., Pentiuc, S. G., Schipor, O. A. (2014). Interoperabilitatea sistemelor distribuite, aplicații și studii de caz privind tehnicile de interoperabilitate a sistemelor distribuite, MatrixROM, ISBN 978-606-25-0100-6.
6. Schipor, O. A., Pentiuc, S. G., Gîză-Belciug, F. (2014). Limbajul C, Tehnici de programare eficientă, MatrixROM, ISBN 978-606-25-0094-8.

Awards

1. Judges Award

Schipor, O. A., Bilius, L. B., Ungurean, O. C., Șiean, A. I., Andrei, A. T., & Vatavu, R. D. (2022, April). Personalized wearable interactions with WearSkill. In Proceedings of the 19th International Web for All Conference (pp. 1-2).

2. Delegates Award

Schipor, O. A., Bilius, L. B., Ungurean, O. C., Șiean, A. I., Andrei, A. T., & Vatavu, R. D. (2022, April). Personalized wearable interactions with WearSkill. In Proceedings of the 19th International Web for All Conference (pp. 1-2).