A Szegedi Tudományegyetem Informatika Doktori Iskolájának nemzetközi kapcsolatai az utóbbi 10 évben

1. Részvétel két- és többoldalú pályázatokban

- „QLectives" projekt, EU FP7 (SZTE projektvezető), 2009–2013, „Nagyméretű dinamikus hálózatokon keresztül kommunikáló közösségek (web 2.0 ill. peer-to-peer) működését elősegítő algoritmusok és rendszerek fejlesztése, pl. ajánlórendszerek, rangsoroló algoritmusok, a minőségi termékek és produktumok kiszelektálását segítő módszerek". Témavezetők: Nigel Gilbert, Johan Pouwelse, Dirk Helbing, Yi-Cheng Zhang, Andrzej Nowak, Camille Roth és Jelasity Márk
- „Gossip-based Strategies in Global Optimization", Ariadna study, 2008, Témavezetők: Alberto Montresor és Jelasity Márk
- FP6 Kollaboratív Projekt, 034921, 2006-2009, „C@R: Collaboration@Rural - A collaborative platform for working and living in rural areas". Témavezető: Gyimóthy Tibor
- FP7 Kollaboratív Projekt, 228746, 2009-2011, „CONVERGE: Collaborative Communication Driven Decision Management in Non-hierarchical Supply Chains of the Electronic Industry". Témavezető: Gyimóthy Tibor
- FP7 Kollaboratív Projekt, 609666, 2013-2016, „REPARA: Reengineering and Enabling Performance And poweR of Applications". Témavezető: Gyimóthy Tibor
- Magyarország-Szerbia IPA Határon Átnyúló Együttműködési Program, HUSRB/1002/214/044, 2012-2013, „Cross-border ICT Research Network". Témavezető: Gyimóthy Tibor
- COST IC1206, 2013-2017 "De-Identification for Privacy Protection in Multimedia Content". 28 ország, MC tag: Alexin Zoltán
- COST MP1207, 2013-2017 "EXTREMA: Enhanced X-ray Tomographic Reconstruction: Experiment, Modeling, and Algorithms". 21 ország, MC tag: Balázs Péter és Nagy Antal
- MÖB-DAAD német-magyar kutatócsere program, 2008-2009, „Data-driven retina image analysis", 6 fő, Témavezetők: Joachim Hornegger és Nyúl László
- DAAD-MÖB német-magyar kutatócsere program, 2005-2006, „Weighted Tree Automata". Témavezetők: Heiko Vogler és Fülöp Zoltán
- OMAA Osztrák-magyar Akció Alapítvány, 2006, „Algebraic contsructions in computer science". Témavezetők: Werner Kuich és Fülöp Zoltán
- OMAA Osztrák-magyar Akció Alapítvány, 2007, „Algebra and logic in computer science". Témavezetők: Werner Kuich és Fülöp Zoltán
- EU FP7, 609666, 2014-2016, "REPARA - Reengineering and Enabling Performance And poweR of Applications". 8 fő, Témavezetők: J. Daniel García és Ferenc Rudolf
- European Science Foundation, an ESF Standing Committee for Physical and Engineering Sciences (PESC) Programme, „Automata: from Mathematics to Applications (AutoMathA)", 2005-2010. A Steering Committee magyar tagja: Ésik Zoltán
- TÉT Magyar-görög kétoldalú Tudományos és Technológiai Együttműködés, „A fixpontelmélet kiterjesztései és alkalmazásai nemmonoton formaliznusokra", TÉT_10-1-2011-0548, 2012-2014. Témavezetők: Panos Rondogiannis és Ésik Zoltán
- NKFI (OTKA), „Algebraic Structures and Fixed Point Operations in Computer Science", ANN 110883, osztrák-magyar együttműködés. Témavezető: Ésik Zoltán
- Austrian-Hungarian Action Foundation, „Automata, Languages and Fixed Points", 77öu9, 2010. Témavezetők: Werner Kuich és Ésik Zoltán

- Hungarian Academy of Science and CNRS, „Algebraic Theory of Automata”, 2007-2009. Témavezetők: Jan-Eric Pin és Ésik Zoltán
- Hungarian Academy of Science and Japan Society for the Promotion of Science, „Automata and Formal Languages”, MTA-JSPS 101, 2007-2008. Témavezetők: Masami Ito és Ésik Zoltán
- Magyar-német (TKA-DAAD) kutatócsere projekt, ”Automaták elmélete és alkalmazásai'', 55657, 2014-2015. Témavezetők: Manfred Droste és Ésik Zoltán

2. Külföldiek által tartott PhD kurzusok

- Wilfried Gansterer (University of Vienna): Distributed Data Mining
- David Hales (Open University of UK): Agent-Based Modelling in NetLogo (ABM-NetLogo)
- David Hales (Open University of UK): Modelling Social Interaction in Information Systems
- Tamás Horváth (University of Bonn, Fraunhofer IAIS): Advanced Topics in Frequent Pattern Mining
- Arnold Neumaier(University of Vienna): Tree decompositions and large-scale computation
- Gerhard Reinelt (University of Heidelberg): Mixed-Integer Programming and Combinatorial Optimization
- Harry Sneed (ANECON GmbH Wien, Austria): Testing
- Harry Sneed (ANECON GmbH Wien, Austria): Metrics
- Harry Sneed (ANECON GmbH Wien, Austria): Reengineering
- Harry Sneed (ANECON GmbH Wien, Austria): Software evolution
- Harry Sneed (ANECON GmbH Wien, Austria): Software measurement
- Heiko Vogler (Technical University of Dresden): Syntax-Based Machine Learning - Selected Topics
- Heiko Vogler (Technical University of Dresden): Natural Language Processing – Training
- Heiko Vogler (Technical University of Dresden): Syntax-Based Machine Translations - Selected Topics
- Heiko Vogler (Technical University of Dresden): Machine Translation of Natural Languages

3. Publikációkkal dokumentálható egyéni kapcsolatok

Válogatás a Doktori Iskola törzstagjainak az utóbbi 10 évben nemzetközi együtműködés keretében elért eredményeiből, a teljesség igénye nélkül.

Csendes Tibor és L.G. Casado, I. García (University of Almeira), J. Fernandez (University of Murcia), L. Özdamar (University of Smirna), C. Pedamallu (National University of Singapore, Harvard University), L. Pál (Sapientia Egyetem, Csíkszereda), J.R. Banga (Spanish Council for Scientific Research, Vigo), A. Neumaier (University of Vienna). Néhány reprezentatív közlemény:

- M.C. Markot, J. Fernandez L.G. Casado, T. Csendes: New interval methods for constrained global optimization. Mathematical Programming 106 (2006) 287-318
- C.S. Pedamallu, L. Özdamar, T. Csendes: Symbolic Interval Inference Approach for Subdivision Direction Selection in Interval Partitioning Algorithms. Journal of Global Optimization 37 (2007) 177-194

- P.G. Szabó, M.Cs. Markót, T. Csendes, E. Specht, L.G. Casado, I. Garcia: New Approaches to Circle Packing in a Square - With Program Codes. Springer, Berlin, 2007
- B. Tóth, J. Fernandez, T. Csendes: Empirical convergence speed of inclusion functions for facility location problems. Journal of Computational and Applied Mathematics 199 (2007) 384-389
- T. Csendes, L. Pál, J. Oscar H. Sendin, J.R. Banga: The GLOBAL Optimization Method revisited. Optimization Letters 2 (2008) 445-454
- C.S. Pedalmallu, L. Özdamar, T. Csendes, T. Vinkó: Efficient Interval Particioning for Constrained Global Optimization. J. Global Optimization 42 (2008) 369-384
- J.O.H. Sendin, J.R. Banga, T. Csendes: Extension of a Multistart Clustering Algoeithm for Constrained Global Optimization Problems. Industrial & Engineering Chemistry Research 48 (2009) 3014-3023
- L. Pál, T. Csendes: INTLAB implementation of an interval global optimization algorithm. Optimization Methods and Software 24 (2009) 749-759
- L. Pál, T. Csendes, M.Cs. Markót, A. Neumaier: Black-box optimization benchmarking of the GLOBAL method. Evolutionary Computation 20 (2012) 609-639
- B. Bánhelyi, T. Csendes, T. Krisztin, A. Neumaier: Global Attractivity of the zero solution for Wright's equation. SIAM J. Applied Dynamical Systems 13 (2014) 537-563.

Csirik János és D.S. Johnson (†), C. Kenyon (Párizs), J.B. Orlin (MIT), P.W. Shor (MIT), R.R. Weber (Cambridge), E.G. Coffman Jr. (Columbia, New York), J.Y-T. Leung (New Jersey, USA), L. Epstein (Haifa, Israel), A. Levin (Technion, Israel), P. Bertholet (Bern), H. Bunke (Bern). Néhány reprezentatív közlemény:

- J. Csirik, D.S. Johnson, C. Kenyon, J.B. Orlin, P.W. Shor, R.R. Weber: On the sum-of-squares algorithm for bin packing, Journal of ACM, 53(1), 2006, 1-65.
- E.G. Coffman, Jr., J. Csirik: Performance guarantees for one dimensional bin packing, Approximation algorithms and metaheuristics (Ed: Theofilo F. Gonzales), Taylor and Francis Group, 32-1, 2007.
- E.G. Coffman, Jr., J. Csirik, J.Y-T. Leung: Variants of classical one dimensional bin packing, Approximation algorithms and metaheuristics (Ed: Theofilo F. Gonzales), Taylor and Francis Group, 33-1, 2007.
- E.G. Coffman, Jr., J. Csirik, J.Y-T. Leung: Variable sized bin packing and bin covering, Approximation algorithms and metaheuristics (Ed: Theofilo F. Gonzales), Taylor and Francis Group, 34-1, 2007.
- E.G. Coffman, Jr., J. Csirik, L. Rónyai, A. Zsbán: Random order bin packing, Discrete Applied Mathematics, 156(14), 2810-2816, 2008.
- J. Csirik, L. Epstein, C. Imreh, A. Levin: Online Clustering with Variable Sized Clusters. Proceedings of MFCS 2010, LNCS, pp. 282-293
- J. Csirik, L. Epstein, C. Imreh, A. Levin: On the sum minimization version of the online bin covering problem. Discrete Applied Mathematics 158(13): 1381-1393 (2010)
- J. Csirik, P. Bertholet, H. Bunke: Sequential classifier combination for pattern recognition in wireless sensor networks, in C. Sansone, J. Kittler, F. Roli (Eds.): MCS 2011, LNCS 6713, 187 – 196, 2011
- H. Bunke, J. Csirik, Z. Gingl, E. Griechisch: Online Signature Verification Method Based on the Acceleration Signals of Handwriting Samples, C. San Martin and S.-W. Kim (Eds.): CIARP 2011, LNCS 7042, 499–506, 2011.
- J. Csirik, L. Epstein, Cs. Imreh, A. Levin: Online Clustering with Variable Sized Clusters. Algorithmica 65(2): 251-274 (2013)

Dombi József és A. Neumaier, M. Fuchs, E. Dolejsi (University of Vienna). Reprezentatív közlemény:

- A. Neumaier, M. Fuchs, E. Dolejsi, T. Csendes, J. Dombi, B. Banhelyi, Z. Gera: Application of clouds for modeling uncertainties in robust space system design, ACT Ariadna Research ACT-RPT-05-5201, European Space Agency (2007)

Ésik Zoltán és S. Alesnikov, J. Boltev, S. Isanov (Immanuel Kant Baltic Federal Univ., Russia), A. Bertoni (Milanó), S. L. Bloom (Stevens Institute of Technology, USA), A. Charalambidis és P. Rondogiannis (Athén), M. Dietzfelbinger (Ilmenau), M. Droste, K. Quaas (Lipcse), U. Fahrenberg és A. Legay (Rennes), L. Aceto, A. Ingólfsdóttir (Reykjavík), J. Karhumäki (Turku), W. Kuich (Bécs), A. Maletti (Stuttgart), C. Martin Vide (Rovira i Virgili Univ., Spain). D. Miller (INRIA Saclay, France), A. Carayol (CNRS & Université Paris Est, France), V. Mitrana (Bukarest), S. Okawa (Aizu), P. Weil (Univ. Bordeaux), K. Sutner (Pittsburgh), Yuan Gao, Sheng Yu (London). Néhány reprezentatív közlemény:

- *-Continuous Kleene omega-algebras, in Proc: DLT 2015, LNCS 9168, Springer, 2015, 240-251, (co-authors: U. Fahrenberg and A. Legay).
- Minimum Model Semantics for Extensional Higher-order Logic Programming with Negation, Theory and Practice of Logic Programming, 14(2014), 725–737, (co-authors: A. Charalambidis, P. Rondogiannis).
- Conway and iteration hemirings Part 1-2, International Journal of Algebra and Computation, 24(2014), 461–513, (co-authors: M. Droste, W. Kuich).
- COBPEMENNAJA THEORIJA ABTOMATOB, Kalinyingrád PG - 261: Immanuel Kant State University of Russia, 2013, (co-authors: Alesnikov, S., Boltev, J., Isanov, S., Kuich, W.)
- Fixed Points in Computer Science 2012, EPTCS 77, 2012, (co-editor D. Miller).
- Algebraic synchronization trees and processes, in: Proc. ICALP 2012, Part II., LNCS 7392, Springer, 2012, 30-41, (co-authors: L. Aceto, A. Carayol, A. Ingólfsdóttir).
- The category of simulations for weighted tree automata, Int. J. Foundations of Comp. Sci., 22(2011), 1845-1859, (co-author: A. Maletti).
- Algebraic Linear Orderings, Int. J. Foundations of Computer Science, 22(2011), 491-515, (co-author: S.L. Bloom).
- Algebraic characterization of logically defined tree languages, Int. J. Algebra and Computation, 20(2010), 195-239, (co-author: P. Weil).
- Estimation of state complexity of combined operations, Theoret. Comput. Sci., 410(2009), 3272-3281, (co-authors: Y. Gao, G. Liu, S. Yu).

Fülöp Zoltán és Symeon Bozapalidis, George Rahonis (Universty of Thessaloniki), Andreas Maletti (University of Stuttgart), Magnus Steinby (University of Turku), Heiko Vogler (Technical University of Dresden). Néhány reprezentatív közlemény:

- Z. Fülöp, H. Vogler, Characterizing Weighted MSO for Trees by Branching Transitive Closure Logics. Theoretical Computer Science 594 (2015) 82-105.
- Z. Fülöp, H. Vogler, Forward and Backward Application of Symbolic Tree Transducers. Acta Informatica 51 (2014) 297-325.
- Z. Fülöp, A. Maletti, Composition Closure of epsilon-free Linear Extended Top-down Tree Transducers. In: Proc. of DLT 2013 (Eds. M. P. Béal and O. Carton), Lecture Notes in Computer Science, Vol. 7907, Springer-Verlag, 2013, 239-251.
- Z. Fülöp, S. Bozapalidis, G. Rahonis, Equational Weighted Tree Transformations. Acta Informatica 49 (2012) 29-52.
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- Z. Fülöp, S. Bozapalidis, G. Rahonis, Equational Tree Transformations. Theoret. Comput. Science 412 (2011) 3676-3692.
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- Z. Fülöp, H. Vogler, Weighted Tree Automata and Tree Transducers. In: M. Droste, W. Kuich, and H. Vogler, editors, Handbook of Weighted Automata, Chap. 9, Springer, Berlin, 2009.

Gingl Zoltán és Kish László Béla (College Station, USA). Néhány reprezentatív publikáció:

- L.B. Kish, Z. Gingl. R. Mingesz, G. Vadai, J. Smulko, C.-G. Granqvist: Analysis of an Attenuator Artifact in an Experimental Attack by Gunn–Allison–Abbott Against the Kirchhoff-Law–Johnson-Noise (KLJN) Secure Key Exchange System, FLUCTUATION AND NOISE LETTERS 14:(1) Paper 1550011. 8 p. (2015)
- Y. Saez, L.B. Kish, R. Mingesz, Z. Gingl, C.-G. Granqvist: Current and voltage based bit errors and their combined mitigation for the Kirchhoff-law–Johnson-noise secure key exchange, JOURNAL OF COMPUTATIONAL ELECTRONICS 13:(1) pp. 271-277. (2014)
- R. Mingesz, L.B. Kish, Z. Gingl, C.-G. Granqvist, H. Wen, F. Peper, T. Eubanks, G. Schmera: Unconditional Security by the Laws of Classical Phisics, METROLOGY AND MEASUREMENT SYSTEMS 20:(1) pp. 3-16. (2013)
- L.B. Kish, S.P. Khatri, S.M. Bezrukov, F. Peper, Z. Gingl T. Horvath T: Noise-based deterministic logic and computing: a brief survey, INTERNATIONAL JOURNAL OF UNCONVENTIONAL COMPUTING 7:(1-2) pp. 101-113. (2011)
- L.B. Kish, H. Chang, M. King, C. Kwan, J. Jensen, G. Schmera, J. Smulko, Z. Gingl, C.-G. Granqvist, Fluctuation-Enhanced Sensing for Biological Agent Detection and Identification: IEEE TRANSACTIONS ON NANOTECHNOLOGY 10:(6) pp. 1238-1242. (2011)
- Z. Gingl, L.B. Kish, B. Ayhan, C. Kwan, C.-G. Granqvist: Fluctuation-Enhanced Sensing With Zero-Crossing Analysis for High-Speed and Low-Power Applications, IEEE SENSORS JOURNAL 10:(3) pp. 492-497. (2010)
- Z. Gingl L.B. Kish, S.P. Khatri: Towards brain-inspired computing, FLUCTUATION AND NOISE LETTERS 9:(4) pp. 403-412. (2010)
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Gyimóthy Tibor és I. Cerna (Masaryk University, Brno), J. Hromkovic (ETH, Zürich), K. Jeffery (Queen's University, Belfast), R. Královic (Katedra Informatiky, Pozsony), M. Vukolic (IBM Research), S. Wolf (USI, Svájc), D. Poshyvanyk (The College of William and Mary, Williamsburg), N. Chrisochoides (Old Dominion University, Norfolk), N. Wehn (Technische Universitat, Kaiserslautern), D. Binkley (Loyola University Maryland, Baltimore), S. Danicic (Tungsten Centre for Intelligent Data Analytics, London), M. Harman (Univerity College London), B. Korel (Oakland University). Néhány reprezentatív közlemény:

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- Z. Herczeg, D. Schmidt, Á. Kiss, N. Wehn, T. Gyimóthy: Energy Simulation of Embedded XScale Systems with XEEMU, Journal of embedded computing 3(3) pp. 209-219. (2009)
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- D. Binkley, S. Danicic, T. Gyimóthy, M. Harman, Á. Kiss, B. Korel: Theoretical foundations of dynamic program slicing, Theoretical Computer Science 360(1-3) pp. 23-41. (2006)
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Imreh Csanád és S. Nagy (Fraunhofer Institute Erlangen), A. Levin (Tehcnion, Haifa), L.T. Fan (Kansas State University). Néhány reprezentatív közlemény:

- Cs. Imreh, M. Ito, On monogenic nondeterministic automata, Acta Cybernetica 18, 777-782, 2008.
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- M. Bárány, B. Bertók, Cs. Imreh, L.T. Fan, F. Friedler, On the equivalence of direct mechanisms and structurally minimal pathways, Journal of Mathematical Chemistry, 50(5), 1347-1361, 2012.
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Kató Zoltán és J. Zerubia (INRIA, Sophia-Antipolis, France), J. Lindblad (Centre for Image Analysis, Swedish University of Agricultural Sciences, Uppsala, Sweden), N. Sladoje (Faculty of Technical Sciences, University of Novi Sad, Serbia), J. Mitra, D. Sidibe, S. Ghose, F. Meriaudeau (Burgundy university, laboratoire le2i, France), T.C. Pong (HKUST, HongKong), I. Jermyn (Department of Mathematical Sciences, Durham University, UK), L. Tamas (Technical University of Cluj-Napoca, Romania), M. Francos (Ben Gurion University of the Negev, Israel), O. Alata (Laboratoire Hubert Curien, Jean Monnet University, Saint-Etienne, France). Néhány reprezentatív közlemény:

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Palágyi Kálmán és M. Sonka, E.A. Hoffman, J. Tschirren (Iowa City, IA, USA). Reprezentatív publikáció:

- K. Palágyi, J. Tschirren, E.A. Hoffman, M. Sonka: Quantitative analysis of pulmonary airway tree structures, Computers in Biology and Medicine 36 (2006) 974-996.

4. Az Informatikai Intézet által szervezett konferenciák az utóbbi 10 évben

- Conference of PhD students in Computer Science CSCS, Szeged, 2006, 2008, 2010, 2012, 2014, 2016
- Summer School on Image Processing SSIP, Szeged, 2006, 2007, 2011, 2015, 2016
- 13th International Conference on Discrete Geometry for Computer Imagery, DGCI 2006, Szeged
- CSL 06 - Computer Science Logic 2006, Szeged
- Logic and Combinatorics, 2006, Szeged
- Algebraic Theory of Automata and Logic, 2006, Szeged
- FCT 2007, 16th International Symposium on Fundamentals of Computation Theory, 2007, Budapest
- AFL 2008, 12th International Conference Automata and Formal Languages, Balatonfüred, 2008
- GWC 2008, The Fourth Global WordNet Conference, Szeged, 2008
- The Eleventh International Conference on Discovery Science, Budapest, 2008
- The 4th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2010), Budapest, 2010.

- European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering 2011, ESEC FSE 2011, Szeged, 2011
- 8th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE 2011, Szeged, 2011
- 16th European Conference on Software Maintenance and Reengineering, CSMR 2012, Szeged, 2012
- 16th IEEE European Conference on Software Maintenance and Reengineering, CSMR 2012, Szeged, 2012
- 13th Symposium on Programming Languages and Software Tools, SPLST'13, Szeged, 2013
- 5th International Workshop Soft Computing Applications, Szeged és Arad, 2013
- Szeged Workshop on Discrete Structures, Szeged, 2014
- MFCS 2014, 39th International Symposium on Mathematical Foundations of Computer Science, 2014, Budapest
- AFL 2014, 14th International Conference Automata and Formal Languages, 2014, Szeged
- XXXII. EURO Summer Institute (on Online Optimization), Szeged, 2015
- COSCH Training School on Heterogeneous visual data fusion techniques - acquisition and algorithms, Szeged, 2015
- Workshop on Large-Scale Tomography, Szeged, 2016

5. Külföldiek szegedi munkalátogatásai

A teljesség igénye nélkül felsoroljuk azon külföldi kollégákat, akik tudományos együttműködés keretében az elmúlt tíz évben az Informatikai Intézetbe látogattak. Közülük számosan előadást is tartottak az intézet szemináriumain.

A. Björkelund (Stuttgart), S.L. Bloom (Hoboken, NJ), R. Bock (Erlangen-Nürnberg), K. Bontcheva (Sheffield), F. Boochs (Mainz), H. Bunke (Bern), A. Carayol (Párizs), E.G. Coffman Jr. (Columbia, NY), M. Droste (Lipcse), L. Epstein (Haifa), U. Fahrenberg (Rennes), J.M. Francos (Beer Sheva), W. Gansterer (Bécs), S. Ghose (Dijon), D. Heusel (Lipcse), A. Ingólfsdóttir (Reykjavik), D. Jannach (Dortmund), I. Jermyn (Durham), H. Kellerer (Graz), K. Koskimies (Tampere), W. Kuich (Bécs), A. Levin (Haifa), J. Lindblad (Uppsala), T. Lukic (Újvidék), A. Maletti (Stuttgart), M. Mayer (Erlangen-Nürnberg), J. Meier (Erlangen-Nürnberg), J.W. Mikkelsen (Odense), J. Mitra (Dijon), J. Nivre (Uppsala), C. Nomikos (Athén), M. Paolucci (Róma), J.-E. Pin (Párizs), T.C. Pong (HongKong), K. Quaas (Lipcse), D. Quernheim (Stuttgart), R. Rahman (Lausanne), G. Rahonis (Thessaloniki), V. Rajlich (Detroit), P. Rondogiannis (Athén), J. Sakarovitch (Párizs), N. Seemann (Stuttgart), J. Sgall (Prága), N. Sladoje (Újvidék), L. Tamas (Kolozsvár), A. Tremeau (Saint-Etienne), H. Vogler (Drezda), T. Weidner (Lipcse), J. Zerubia (Sophia Antipolis).

A Doktori Iskola törzstagjainak és témavezetőinek tartósabb külföldi útjaira nézve lásd a szakmai önéletrajzokat.

Készült: 2016. május 18.