

Paul Leger, PhD

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Catholic University of the North
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Personal

Name: Paul Leger
Hometown: Coquimbo, Chile
Nationality: Chilean

Associate Professor, Catholic University of the North, 2017 - present.

Assistant Professor, Catholic University of the North, 2012 - 2017.

PhD in Computer Science, University of Chile, 2006 - 2012.

Subject: Opening Up Trace-Based Mechanisms.

Advisor: Éric Tanter (<http://pleiad.cl/etanter>).

Engineering degree in Computer Science, University of La Serena, 1999 - 2005 (July).

B.Sc. in Computing Sciences, University of La Serena, 1999 - 2005 (April).



Activities and Interests of Research

Activities

Pragmatics Lab. Founder of a research laboratory in programming languages, software engineering, and simulations of agent-based models, <http://pragmatics-lab.com>.

Keywords

Programming languages. Modularity, abstractions, different approaches (from the functional programming to aspect-oriented programming), and the language supporting for advanced features like the matching of program execution traces.

Software engineering. Developing tools to help programmers in software construction.

Agent-based simulations for Marketing. Lately, interested in the application of agent-based simulations to predict user behaviors in different environments (*e.g.*, social network sites like Twitter).

Internships/Visiting Researchers

Cauca University, Popayan, Colombia. We studied collaboration between Software Product/Process Lines and Open Implementation guidelines, February - March, 2018.

Shibaura Institute of Technology, Tokyo, Japan. We studied different applications of asynchronous programming and aspect-oriented programming for the Web, December - February, 2014 - 2015.

Shibaura Institute of Technology (Short Postdoc), Tokyo, Japan. We studied the use of my PhD work on mobile applications, April - August, 2013.

École des mines de Nantes, Nantes, France. We studied about the modular control of distributed causality issues on the Web, February - March, 2010.

Scientific & Academic Services

Academic Services

Master Program Committee Member. Master in Computer Science, Catholic University of the North, 2014 - present.

Master Program Committee Member. Master of Science in Business, Catholic University of the North, 2016 - present.

Department Representative. Representative of Administration and Information Systems, Catholic University of the North, 2016 - 2018.

Undergraduate Program Committee Member. Professor Committee of the undergraduate program Information and Management Control Engineering, Catholic University of the North, 2014 - 2018.

Coordinator. Coordinator of the Information Technology line, Information and Management Control Engineer, Catholic University of the North, 2014 - 2017.

Scientific Services

Journal Editor:

- Guest Editor on International Journal of Software Engineering and Knowledge Engineering, 2015, ISSN: 1793-6403. **ISI.**

Journal Reviewer:

- IEEE Latin America Transactions, 2018, ISSN: 1548-0992. **ISI.**

- Ingeniare (*x* 2), 2018, ISSN: 0718-3305. **SCOPUS.**

- Formación Universitaria (FU), 2018, ISSN: 0718-5006. **SCOPUS.**

- Journal of Technology Management & Innovation (JOTMI), 2015, ISSN: 0718-2724. **SCOPUS.**

- Spanish Journal of Marketing (SJME), 2017, ISSN: 2444-9695.

Chair:

- Track Chair on Modularization for Practical Software Engineering (MPSE), International Conference on Bio-inspired Information and Communications Technologies, 2015, <http://bionetics.org>. **SCOPUS.**

- Track Chair on Modularization for Practical Software Engineering (MPSE), International Conference on Bio-inspired Information and Communications Technologies, 2014, <http://bionetics.org>.

- Session Chair on Track on Software Engineering (SE), ACM Symposium on Applied Computing (SAC), 2017, <http://selab.uos.ac.kr/sacse17>. **SCOPUS.**

- Publicity Chair on 9th International Conference on Bio-inspired Information and Communications Technologies, 2015, <http://bionetics.org>. **SCOPUS.**

Program Committee Member:

- ACM Symposium on Applied Computing (SAC), Track on Software Engineering (SE), 2019, <http://selab.uos.ac.kr/sacse19>. **SCOPUS.**

- 11th EAI International Conference on Bio-inspired Information and Communications Technologies, 2019 <http://bionetics.org>. **SCOPUS.**

- ACM Symposium on Applied Computing (SAC), Track on Software Engineering (SE), 2018, <http://selab.uos.ac.kr/sacse18>. **SCOPUS.**

- ACM Symposium on Applied Computing (SAC), Track on Software Engineering (SE), 2017, <http://selab.uos.ac.kr/sacse17>. **SCOPUS**.
- ACM Symposium on Applied Computing (SAC), Track on Software Engineering (SE), 2016, <http://selab.uos.ac.kr/sacse16>. **SCOPUS**.
- ACM Symposium on Applied Computing (SAC), Track on Software Engineering (SE), 2015, <http://selab.uos.ac.kr/sacse15>. **SCOPUS**.
- New Ideas or Emerging Results (NIER) and Tool Demo (TD), Third IEEE Working Conference on Software Visualization (VISSOFT), 2015, <http://vissoft.dcc.uchile.cl>.
- Congreso Internacional de Computación e Informática del Norte de Chile (INFONOR), 2017, <http://infonor-chile.cl>.
- Congreso Internacional de Computación e Informática del Norte de Chile (INFONOR), 2016, <http://infonor-chile.cl>.
- Congreso Internacional de Computación e Informática del Norte de Chile (INFONOR), 2015, <http://infonor-chile.cl>.
- Congreso Internacional de Computación e Informática del Norte de Chile (INFONOR), 2014, <http://infonor-chile.cl>.
- Congreso Internacional de Computación e Informática del Norte de Chile (INFONOR), 2013, <http://infonor-chile.cl>.

Evaluator:

- Evaluator on Short Internship Projects (MEC), CONICYT, 2014, <http://www.conicyt.cl/pai>.
- Research Project Pontificia Universidad Católica de Valparaíso, 2018, <http://www.pucv.cl>.
- External Reviewer of Master Thesis: “Verificación progresiva de programas en Dafny”, Escuela de Ingeniería, Pontificia Universidad Católica de Valparaíso, 2018, <http://http://pucv.cl/>.
- External Reviewer of Master Thesis: “Discovering Memory Optimization Opportunities by Analyzing Shareable Objects”, Computer Science Department (DCC), University of Chile, 2017, <http://www.uchile.cl>.

Invited Speaker:

- “La carrera académica universitaria: Desde cómo comenzar hasta cómo permanecer en ella”. Universities:
 - * University of La Serena (ULS), Chile, May, 2016.
 - * Cauca University (Unicauca), Colombia, February, 2018.
- “Modularity, Crosscutting Concerns, and AOP with its applications”. Universities:
 - * University of Massachusetts Boston (UMASS), USA, December, 2014.
 - * University of La Serena (ULS), Chile, August, 2014.
 - * University of Playa Ancha (UPLA), Chile, August, 2015.
 - * San Pablo Catholic University (UCSP), Peru, July, 2016.
 - * Cauca University (Unicauca), Colombia, March, 2018.

Academic Experience

Lecturer

Postgraduate (total 3)

Research Methodology, Catholic University of the North, 2018.

Advanced Design Patterns, Diego Portales University, 2011.

Objects and Aspects, Diego Portales University, 2010.

Undergraduate (total 28)

Data Structure, Catholic University of the North, 2018.

Management Information System Development, Catholic University of the North, 2018.

Communication Elements (x 5), Catholic University of the North, 2014 - 2018.

Programming (x 3), Catholic University of the North, 2013 - 2016.

Process Modelling (x 3), Catholic University of the North, 2013 - 2016.

Data Base (x 4), Catholic University of the North, 2013 - 2017.

Programming and Database. Catholic University of the North, 2012.

Languages and Paradigms. University of Talca, 2012.

Advanced Programming. Diego Portales University, 2011.

Programming (x 5). Diego Portales University, 2010 - 2012.

Computing I (x 3). Diego Portales University, 2009.

Thesis Advising (total 18)

Postgraduate (x 2), Catholic University of the North, 2017 - present.

Undergraduate (x 17), Catholic University of the North, 2013 - present.

Evaluations as Professor

Catholic University of the North (Three consecutive times) Best professor evaluation for undergrad teaching in School of Business Studies, 2012 - 2014.

Diego Portales University (Spanish) "Paul dictó varios cursos (incluso cursos de postgrado) en nuestra carrera, él mostró cercanía con los alumnos y capacidad suficiente para motivarlos a interiorizarse en la materia", Jonathan Frez (jonathan.frez@udp.cl), Teaching Management, of School of Computer Science and Telecommunications Engineer telecommunications.

University of Talca (Spanish) "Vistos los resultados de la encuesta, el prof. Leger obtiene puntaje por sobre el promedio del Departamento y de la Facultad en cada uno de los ítems de la encuesta...". Ruth Garrido (rgarrido@utalca.cl), Head of School of Computer Science Engineer.

Publications

NOTE: For conferences/workshops, we use the CORE ranking, which belongs COMputing REsearch and Education Association of Austral-asia. CORE is available on <http://portal.core.edu.au/conf-ranks>.

Ph.D

Leger, Paul (2012). "Opening Up Trace-Based Mechanisms — Application to Context-Aware Systems". PhD thesis. University of Chile, pp. 1–180.

Journals (ISI/SCOPUS/SCIELO)

- Fukuda, Hiroaki, Paul Leger, and Namiki Keita (2016). "CMSN: An Efficient and Effective Agent Lookup for Mobile Agent Middleware". In: *Journal of Universal Computer Science* 22.8, pp. 1072–1096. DOI: 10.3217/jucs-022-08-1072. **ISI**.
- Fukuda, Hiroaki and Paul Leger (2015c). "SyncAS: A Virtual Block Approach to Tame Asynchronous Programming". In: *International Journal of Software Engineering and Knowledge Engineering (IJSEKE)* 25.5, pp. 887–907. DOI: 10.1142/S0218194015400252. **ISI**.
- Leger, Paul, Éric Tanter, and Hiroaki Fukuda (2015). "An Expressive Stateful Aspect Language". In: *Science of Computer Programming* 102.0, pp. 108–141. DOI: 10.1016/j.scico.2015.02.001. **ISI**.
- Liu, Shih-Hsi, Junichi Suzuki, Paul Leger, Hiroaki Fukuda, and Marjan Mernik (2015). "Featured Topic Issue - Emerging Synergies of Artificial Intelligence and Software Engineering". In: *International Journal of Software Engineering and Knowledge Engineering (IJSEKE)* 25.5, pp. 803–805. DOI: 10.1142/S0218194015020040. **ISI**.
- Leger, Paul, Grecia Gálvez, Lino Cubillos, Diego Cosmelli, Milton Inostroza, Éric Tanter, Gina Luci, and Jorge Soto Andrade (2014). "ECOCAM, un sistema computacional adaptable al contexto para promover estrategias de cálculo mental: características de su diseño y resultados preliminares". In: *Revista Latinoamericana de Investigación en Matemática Educativa* 17.1, pp. 33–58. DOI: 10.12802/relime.13.1712. **ISI**.
- Ramírez, Pablo, Paul Leger, and Andres Vallone (2014). "Un Modelo Flexible para la Simulación de Distribución de Ciudades". In: *Revista chilena de ingeniería* 22.3, pp. 363–373. DOI: 10.4067/S0718-33052014000300007. **SCOPUS/SCIELO**.
- Ramírez, Patricio, Paul Leger, and Carolina Fuentes (2014). "Los Programas de Ingeniería en Sistemas de Información y Control de Gestión en Chile: Un Análisis Cuantitativo". In: *Formación Universitaria* 7.2, pp. 21–28. DOI: 10.4067/S0718-50062014000200004. **SCOPUS/SCIELO**.
- Leger, Paul, Éric Tanter, and Rémi Douence (2013). "Modular and Flexible Causality Control on the Web". In: *Science of Computer Programming* 78.9, pp. 1538–1558. DOI: 10.1016/j.scico.2012.11.005. **ISI**.
- Gálvez, Grecia, Diego Cosmelli, Lino Cubillos, Paul Leger, Arturo Mena, Éric Tanter, Ximena Flores, Gina Luci, Soledad Montoya, and Jorge Soto Andrade (2011). "Estrategias Cognitivas para el Cálculo Mental". In: *Revista Latinoamericana de Investigación en Matemática Educativa* 14.1, pp. 9–40. **ISI**.

Conferences (SCOPUS)

- Figuerola, Ismael, Bruno García, and Paul Leger (2018). "Towards Progressive Verification in Dafny". In: *Proceedings of the XXII Brazilian Symposium on Programming Languages (SBLP 2018)*. São Carlos, Brazil, pp. 90–97. DOI: 10.1145/3264637.3264649.
- Leger, Paul and Hiroaki Fukuda (2017). "Sync/CC: Continuations and Aspects to Tame Callback Dependencies on JavaScript Handlers". In: *Proceedings of the 32th Annual ACM Symposium on Applied Computing (SAC 2017)*. Marrakech, Morocco: ACM Press, pp. 1245–1250. DOI: 10.1145/3019612.3019783. **Rank B (CORE ranking)**.
- Sabin, Mihaela, Barbara Viola, John Impagliazzo, Renzo Angles, Mariela Curiel, Paul Leger, Jorge Murillo, Hernán Nina, José Antonio Pow-Sang, and Ignacio Trejos (2016). "Latin American Perspectives to Internationalize Undergraduate Information Technology Education". In: *Proceedings of the 2016 ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2016)*. Arequipa, Peru, pp. 1–22. DOI: 10.1145/3024906.3029847. **Rank A (CORE ranking)**.
- Toledo, Rodolfo, Paul Leger, and Éric Tanter (2010). "AspectScript: Expressive Aspects for the Web". In: *Proceedings of the 9th ACM International Conference on Aspect-Oriented Software Development (AOSD 2010)*. Rennes and Saint Malo, France: ACM Press, pp. 13–24. DOI: 10.1145/1739230.1739233. **Rank A (CORE ranking)**.

Workshops (SCOPUS)

- Leger, Paul and Hiroaki Fukuda (2016). "Using Continuations and Aspects to Tame Asynchronous Programming on the Web". In: *Proceedings of the Workshop on Foundations of Aspect-Oriented Languages*

- (FOAL 2016). Malaga, Spain: ACM Press, pp. 79–82. doi: 10.1145/2892664.2892675. **Rank C (CORE ranking)**.
- Fukuda, Hiroaki and Paul Leger (2015b). “Proposals for Modular Asynchronous Web Programming: Issues and Challenges”. In: *Proceedings on Pervasive Web Technologies, Trends and Challenges (PEWET 2015)*. Vol. 9396. Lecture Notes in Computer Science. Rotterdam, the Netherlands: Springer International Publishing, pp. 91–102. doi: 10.1007/978-3-319-24800-4_8.
- Silva, Cristian Vidal, David Benavides, José Ángel Galindo, Paul Leger, Rodolfo Villarroel, and Sebastián Valenzuela (2015). “JPI Feature Models: Exploring a JPI and FOP Symbiosis”. In: *WASE 2015 Workshop on Advanced Software Engineering*. Santiago, Chile, pp. 1–6. doi: 10.1109/SCCC.2015.7416583.
- Leger, Paul and Éric Tanter (2012). “A Self-Replication Algorithm to Flexibly Match Execution Traces”. In: *Proceedings of the 11th Workshop on Foundations of Aspect-Oriented Languages (FOAL 2012)*. Potsdam, Germany: ACM Press, pp. 27–32. doi: 10.1145/2162010.2162019. **Rank C (CORE ranking)**.

Congresses (Conferences/Workshops not indexed by ISI/SCOPUS)

Note: These papers are just presentations of technical reports or working papers.

- Pizarro, Vicky, Paul Leger, Carmen Hidalgo-Alcázar, and Ismael Figueroa (2018). “Simulación de un Modelo Basado en Agentes para la Elección de Destinos Turísticos”. In: *IX Congreso Internacional de Computación e Informática del Norte de Chile (Infonor 2018)*. Iquique, Chile. **To Appear**.
- Araya, Natalia, Paul Leger, and Manuela López (2017). “A Quién Selecciono? Análisis De Hubs y Líderes de Opinión en la Difusión de Información en Twitter. Una Simulación Basada en Agentes”. In: *XXIX Congreso Internacional de Marketing (AEMARK 2017)*. Sevilla, Spain.
- López, Manuela, Carmen Hidalgo-Alcázar, and Paul Leger (2017). “How many times should a company repeat a tweet to reach the highest diffusion? An agent-based simulation approach”. In: *V Workshop De Jóvenes Investigadores En Economía Y Empresa*. Jaca, Spain.
- López, Manuela, Carmen Hidalgo-Alcázar, and Paul Leger (2017). “The Effect of Message Repetition on Information Diffusion on Twitter Using an Agent-Based Simulation”. In: *The 2017 International Conference on Research in Advertising (ICORIA 2017)*. Ghent, Belgium.
- Pizarro, Vicky, Paul Leger, and Carmen Hidalgo-Alcázar (2017). “Elección de los Destinos Turísticos de España: Una Simulación Basada en Agentes”. In: *XXIX Congreso Internacional de Marketing (AEMARK 2017)*. Sevilla, Spain.
- López, Manuela, Carmen Hidalgo-Alcázar, and Paul Leger (2016). “Tell Me Again! The Effect of Message Repetition on Information Diffusion on Twitter: An Agent-Based Approach”. In: *XXVIII Congreso de Marketing (AEMARK 2016)*. Leon, Spain.
- López, Manuela, Carmen Hidalgo-Alcázar, and Paul Leger (2015). “An Agent-based Information Diffusion Study on Social Network Sites”. In: *III Workshop Jóvenes Investigadores en Economía y Empresa*. Teruel, España.
- López, Manuela, Carmen Hidalgo-Alcázar, and Paul Leger (2015). “Don’t Bother Me with Many Messages: An Information Diffusion Study on Social Network Sites with An Agent-Based Approach”. In: *XXVII Congreso de Marketing (AEMARK 2015)*. Pamplona, Spain. **Best Working Paper Award!**
- Vidal, Cristian, David Benavides, José Galindo, and Paul Leger (2015). “Exploring the Synergies between Join Point Interfaces and Feature-Oriented Programming”. In: *XX Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2015)*. Santander, España.
- Azegami, Takeshi, Hiroaki Fukuda, and Paul Leger (2014). “Towards a Virtual Block Approach to Tame Asynchronous Programming”. In: *Proceedings of 8th International Conference on Bio-inspired Information and Communications Technologies (BICT 2014)*. Boston, USA: ACM Press, pp. 239–242. doi: 10.4108/icst.bict.2014.257939. **Superseded by IJSEKE (International Journal of Software Engineering and Knowledge Engineering)**.
- Vidal, Elizabeth, Edwin Morales, and Paul Leger (2014). “Usando BPMN para Modelar Procesos en el Área de Ingeniería y Proyectos de una Empresa Minera del Perú”. In: *VI Congreso Internacional de Computación y Telecomunicaciones (COMTEL 2014)*. Lima, Peru.
- Ramírez, Pablo, Paul Leger, and Andres Vallone (2013). “Un Modelo Flexible para la Simulación de Distribución de Ciudades”. In: *IV Congreso Internacional de Computación e Informática del Norte de Chile (Infonor 2013)*. Coquimbo, Chile. **Superseded by INGENIARE**.

- Ramírez, Patricio, Paul Leger, and Carolina Fuentes (2013). “Explorando los Programas de Ingeniería en Sistemas de Información y Control de Gestión en Chile”. In: *XV Congreso Chileno de Educación Superior en Computación (CCESC 2013)*. Temuco, Chile. **Superseded by Formación Universitaria**.
- Leger, Paul (2010). “Developing Context-Aware Systems Using Expressive Trace-based Mechanisms”. In: *Encuentro Tesistas de Doctorados en Jornada Chilena de Computación (JCC)*. Antofagasta, Chile.
- Leger, Paul and Éric Tanter (2010). “An Open Trace-Based Mechanism”. In: *Proceedings of the 14th Brazilian Symposium on Programming Languages (SBLP 2010)*. Ed. by Jonathan Aldrich and Ricardo Massa. Salvador - Bahia, Brazil, pp. 123–138.
- Leger, Paul and Éric Tanter (2010). “Towards an Open Trace-Based Mechanism”. In: *Proceedings of the Ninth Workshop on Foundations of Aspect-Oriented Languages (FOAL 2010)*. Ed. by Gary T. Leavens, Shmuel Katz, and Mira Mezini. Rennes and Saint Malo, France, pp. 25–30.
- Leger, Paul (2008). “Context-Dependent Adaptations Using Tracematch Extensions”. In: *Encuentro Tesistas de Doctorados en Jornada Chilena de Computación (JCC)*. Punta Arenas, Chile.

Posters

- Leger, Paul, Carmen Hidalgo-Alcázar, and Manuela López (2018). “Using an agent-based model to measure the message repetition effect on Twitter”. In: *Proceedings of the 33rd Annual ACM Symposium on Applied Computing (SAC 2018)*. Pau, France: ACM Press, pp. 1828–1830. DOI: 10.1145/3167132.3167429.
- Fukuda, Hiroaki and Paul Leger (2015a). “A Library to Modularly Control Asynchronous Executions”. In: *Proceedings of the 30th Annual ACM Symposium on Applied Computing (SAC 2015)*. Salamanca, Spain: ACM Press, pp. 1648–1650. DOI: 10.1145/2695664.2696034.
- Fukuda, Hiroaki and Paul Leger (2015). “An Efficient Agent Location Management for Wireless Sensor Networks”. In: *Proceedings of International Conference on Distributed Computing in Sensor Systems (DCOSS 2015)*. Fortaleza, Brazil: ACM Press, pp. 10–12. DOI: 10.1109/DCOSS.2015.19. **Superseded by JUCS (Journal of Universal Computer Science)**.
- Leger, Paul, Manuela López, Carmen Hildago, and Hiroaki Fukuda (2015). “An Open Agent-Based Model to Simulate the Effect of WOM Marketing Campaigns”. In: *Artificial Intelligence and Software Engineering (AISE)*. New York, USA. DOI: 10.4108/eai.3-12-2015.2262533.
- Leger, Paul and Hiroaki Fukuda (2014). “Why do Developers not Take Advantage of the Progress in Modularity?” In: *Proceedings Proceedings of 8th International Conference on Bio-inspired Information and Communications Technologies (BICT 2014)*. Boston, USA: ACM Press, pp. 388–389. DOI: 10.4108/icst.bict.2014.257938.
- Leger, Paul (2011). “Conscientious Software for Education”. In: *In Congreso Internacional de Informática Educativa (TISE)*. Santiago, Chile.

Professional

Autopista Central. Consulting engineer, 2017.

Regional Observatory (working market). Software project manager, implementation of an information system that allows users to analyze working market in a region of Chile, 2016 - 2017.

Autopista Central. Consulting engineer, 2011.

Center for Advanced Research in Arid Zones (CEAZA). Research assistant, two tasks: a) using MM5 (mesoscale model) to simulate or predict mesoscale atmospheric circulation and b) applying artificial neural networks to group/classify rainfall scenarios (both tasks applied to a limited-area in Chile), 2002 - 2004.

Viña Ocho Tierras. Project Manager of Web Site, 2002.

Software

AspectScript: An aspect language for JavaScript (<http://pleiad.cl/aspectscript>).

ESA-JS: An Expressive Stateful Aspect Language (ESA) For JavaScript (<http://pleiad.cl/esa>).

WeCa: A practical library to address causality issues on the Web (<http://pleiad.cl/weca>).

SyncAS (proof of concept): A library to address callback issues on ActionScript (<http://www.pragmatic.jp/research/syncas/>).

SyncCC (proof of concept): A library to address callback issues on JavaScript (<http://pleger.cl/synccc>).

Tirtana: A Web application to analyze big amounts of tweets (<http://pleger.cl/tirtana>).

Awards & Distinctions

Funding for Visiting Researcher, Alliance of Pacific (AGCI 2018) to visit Colombia (<https://alianzapacifico.net/becas-2/>).

Best working paper award, AEMARK 2015 (<http://www.aemarkcongresos.com/congreso2015/es/premios>).

Selected as the best professor for undergrad teaching, Business School, Catholic University of the North, Chile, 2014 and 2017.

In the press,

El Observatorio, a Japanese-Chilean collaboration:

<http://www.elobservatodo.cl/noticia/tecnologia/expertos-de-japon-y-ucn-colaboran-en-proyectos-dedicados-computacion>

Viva Chile Elqui, only Chilean researcher who worked on the update of IT curricula:

<http://vivechileelqui.cl/2016/09/05/academico-ucn-es-unico-chileno-colaborando-en-actualizacion-mundial-en-computacion>

Ph.D funding, Conicyt, Chile, 2007.

Ph.D funding, Nic, Chile, 2006.

References

Hiroaki Fukuda. PhD in Computer Science. Associate Professor. Shibaura Institute of Technology, Japan (hiroaki@shibaura-it.ac.jp).

Ismael Figueroa. PhD in Computer Science. Assistant Professor. Pontificia Universidad Católica del Valparaíso, Chile (ismael.figueroa@pucv.cl).

Éric Tanter. PhD in Computer Science. Full Professor. Computer Science Department (DCC), University of Chile, Chile (etanter@dcc.uchile.cl).

Jorge Soto-Andrade. PhD in Mathematics Science. Full Professor. Mathematics Department. University of Chile, Chile (sotoandr@uchile.cl).

Melitta Fiebig. PhD in Mathematics Science. Retired Full Professor. Mathematics Department. University of La Serena, Chile (mefiebig@userena.cl).