Victor Ostromoukhov

Full Professor, Université Claude Bernard Lyon 1
LIRIS/CNRS UMR 5205, Researcher

EDUCATION

1994 **Ph.D. in Computer Science**, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland.

1980 **Diploma of engineer-physicist**, Moscow Institute of Physics and Technology (Psys-Tech, MIPT), Russia.

PROFESSIONAL EXPERIENCE

2009–now **Université Claude Bernard Lyon 1 (UCBL), LIRIS/CNRS UMR 5205**, *Lyon*.
Full Professor (starting from May 2026: Emeritus Professor)

2000–2009 **Université de Montréal**, *Montréal*, Canada.
Associate Professor

1999–2000 **Massachusetts Institute of Technology**, *Cambridge*, United States.
Research Scientist

1989–1999 **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, *Lausanne*, Switzerland.
Ph.D Student, then Senior Scientist and Lecturer (starting from 1994)

1997 **University of Washington**, *Seattle*, United States.
Invited Professor

1995-1996 **Canon Information Systems**, *Cupertino*, United States.
Senior Scientist, Consultant

1985-1989 **Olivetti**, *Paris*, France.
Computer Scientist and Engineer

1983-1985 **Société Générale de Service et de Gestion (SG2)**, *Paris*, France.
Computer Engineer

1980-1983 **Globe Physics Institute**, *Moscow*, Russia.
Research Scientist

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

TEACHING

2009-2026 **Special Topics in Computer Graphics**, *Université Lyon1*, Graduate level.

2012-2026 **Advanced Programming**, *IUT Lyon1*, Undergraduate level.

2009-2026 **Networks, TCP-IP**, *IUT Lyon1*, Undergraduate level.

2010-2026 **Operating Systems, Architecture**, *IUT Lyon1*, Undergraduate level.

2009 **IFT3355 Computer Graphics**, *University of Montreal*, Undergraduate level.

2004-06,09 **IFT6095 Special Topics in Computer Graphics**, *University of Montreal*, Graduate level.

2005-08 **IFT1215 Introduction aux systèmes informatiques**, *University of Montreal*, Undergraduate level.

2001-06 **IFT6815 Computer Architecture and OS**, *University of Montreal*, Graduate level, DESS.

S2006-07 **Camp informatique**, *University of Montreal*, Undergraduate level.

2004 **IFT1214 Introduction to Computer Systems**, *University of Montreal*, Undergraduate level.

2002-03 **IFT6080 Art and Science of Image Making**, *University of Montreal*, Graduate level.

2001-02 **IFT6891 Computer Architecture and Data Structures: Project**, *University of Montreal*, Graduate level, DESS.

2001 **IFT3350/6350 Computer Graphics**, *University of Montreal*, Undergraduate/Graduate level.

2001 **IFT3051 CS Project**, *University of Montreal*, Undergraduate level.

2000 **IFT6042 Image Synthesis**, *University of Montreal*, Graduate level.

1998-99 **Computer Graphics**, *Art and Science*, EPFL, Graduate level.

1997 **CSE/457 Computer Graphics**, *University of Washington*, Undergraduate level.

1997 **CSE/558 Special Topics in Computer Graphics**, *University of Washington*, Graduate level.

1995-99 **Color Reproduction, Peripheral Systems**, *EPFL*, Graduate level.

1997-99 **Programming, Numerical Algorithms**, *EPFL*, Undergraduate level.

PAST AND CURRENT RESEARCH GRANTS

2021-2025 **ANR ANR-AAPG2020 Advanced Monte Carlo Methods for Medical Physics**, *Amount: 478 132 Euros*, Role: Principal Investigator for LIRIS/CNRS.

2010-2015 **ANR excellence chair ANR-10-CEXC-002-01**, *Amount: 760 000 Euros*, Role: Principal Investigator.

2001-2009 **NCERG research grant**, *Amount: 27 000 CAD per year*, Role: Principal Investigator.

2000-2001 **University of Montreal starting grant**, *Amount: 60 000 CAD*, Role: Principal Investigator.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

PhD STUDENTS SUPERVISED SINCE 2009

2009-2012 **Raphaël Loyer**, *Dynamic Sound Rendering of Complex Environment*.

2011-2013 **SangHyun Seo, post-doc**, *Non-Photorealistic Rendering with Temporal Coherence*.

2009-2014 **Guillaume Bouchard**, *Synthèse d'images réalistes en milieux fortement spéculaires*.

2010-2015 **Florent Wachtel**, *Systèmes de pavage pour l'échantillonnage*.

2011-2015 **Gurprit Singh**, *Variance Analysis for Monte Carlo Integration on the Sphere and the Hemisphere*.

2012-2015 **Gaël Cathelin**, *Méthodes d'échantillonnage adaptées au rendu multi-échelle*.

2012-2015 **Jonathan Dupuy**, *Apparence multi-échelle, représentation procédurale et rendu*.

2012-2015 **Adrien Pilleboue**, *Etude de variance dans l'intégration de Monte Carlo, pour la synthèse d'images*.

2013-2016 **Hanza Chouh**, *Calcul de champ ultrasonore interactif pour des configurations complexes sur architecture massivement parallèle*.

2014-2017 **Hélène Perrier**, *Représentations unifiées et multi échelles de la forme et de l'apparence d'objets très détaillés*.

2015-2019 **Maxime Sainlot**, *Optimisation de diagrammes de Voronoi restreints en Informatique Graphique*.

2019-2023 **Loïs Paulin**, *Study of Isotropic Hyper-Uniformity Applied to Multi-Dimensional Monte Carlo Integration*.

2021-2024 **Bastien Doignies**, *Advanced Sampling for Medical Simulations Using Machine Learning Approaches*.

PUBLICATIONS

2026 **Abdalla G. M. Ahmed, Matt Pharr, Victor Ostromoukhov, Hui Huang**, *NILE: Nested Interleaving of Low-Dimensional Elements*, ACM SIGGRAPH, 2026, ACM Trans. Graph. 45(4), pp. 1–15.

2025 **Abdalla G. M. Ahmed, Matt Pharr, Victor Ostromoukhov, Hui Huang**, *SZ Sequences: Binary-Constructed (0, 2^q)-Sequences*, ACM SIGGRAPHAsia, 2025, ACM Trans. Graph. 44(6), pp. 1–14.

2025 **Nicolas Bonneel, David Coeurjolly, Jean-Claude Iehl, Victor Ostromoukhov**, *Sobol' Sequences with Guaranteed-Quality 2D Projections*, ACM SIGGRAPH, 2025, ACM Trans. Graph. 44(4), pp. 1–16.

2024 **Bastien Doignies, David Coeurjolly, Nicolas Bonneel, Julie Digne, Jean-Claude Iehl, Victor Ostromoukhov**, *Differentiable Owen Scrambling*, ACM SIGGRAPH-Asia, 2024, ACM Trans. Graph. 43(6), pp. 225:1–225:12.
ACM SIGGRAPH-Asia 2024 Best Paper Award

2024 **Victor Ostromoukhov, Nicolas Bonneel, David Coeurjolly, Jean-Claude Iehl**, *Quad-Optimized Low-Discrepancy Sequences*, ACM SIGGRAPH, 2024.

2023 **Bastien Doignies, Nicolas Bonneel, David Coeurjolly, Julie Digne, Loïs Paulin, Jean-Claude Iehl, Victor Ostromoukhov**, *Example-Based Sampling with Diffusion Models*, ACM SIGGRAPH-Asia, 2023.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2023 **Loïs Paulin, David Coeurjolly, Jean-Claude Iehl, Nicolas Bonneel, Victor Ostromoukhov, Alexander Keller**, *Generator Matrices by Solving Integer Linear Programs*, Submitted to Monte-Carlo and Quasi-Monte Carlo Methods 2022, Springer-Verlag, 2023.

2022 **Loïs Paulin, David Coeurjolly, Jean-Claude Iehl, Nicolas Bonneel, Alexander Keller, Victor Ostromoukhov**, *MatBuilder: Mastering Sampling Uniformity Over Projections*, SIGGRAPH 2022, ACM Trans. Graph. 41(4), pp. 1:1–1:13.

2021 **Loïs Paulin, David Coeurjolly, Jean-Claude Iehl, Nicolas Bonneel, Alexander Keller, Victor Ostromoukhov**, *Cascaded SobolŚampling*, SIGGRAPH-Asia 2021, ACM Trans. Graph. 40(6), pp. 274:1–274:13.

2020 **Loïs Paulin, Nicolas Bonneel, David Coeurjolly, Jean-Claude Iehl, Antoine Webanck, Mathieu Desbrun, Victor Ostromoukhov**, *Sliced Optimal Transport Sampling*, SIGGRAPH 2020, ACM Trans. Graph. 39(4), pp. 99:1–99:17.

2020 **Matteo Paolo Lanaro, Helene Perrier, David Coeurjolly, Victor Ostromoukhov, Alessandro Rizzi**, *Blue-noise sampling for human retinal cone spatial distribution modeling*, Journal of Physics Communications. Vol. 4 (2020), pp. 1–12.

2019 **Alexander Keller, Per Christensen, Matt Pharr, Abdalla Ahmed, Victor Ostromoukhov, Iliyan Georgiev**, *My favorite Samples*, SIGGRAPH 2019 Course.

2019 **Eric Heitz, Laurent Belcour, Victor Ostromoukhov, David Coeurjolly, Jean-Claude Iehl**, *A Low-Discrepancy Sampler that Distributes Monte Carlo Errors as a Blue Noise in Screen Space*, SIGGRAPH 2019 Talk.

2019 **Gurprit Singh, Cengiz Oztireli, Abdalla Ahmed, David Coeurjolly, Kartic Subr, Victor Ostromoukhov, Oliver Deussen, Ravi Ramamoorthi, Wojciech Jarosz**, *STAR: Analysis of Sample Correlations for Monte Carlo Rendering*, Computer Graphics Forum (Proceedings of Eurographics), 38(2), 2019.

2019 **Gurprit Singh, Kartic Subr, David Coeurjolly, Victor Ostromoukhov, Wojciech Jarosz**, *Fourier Analysis of Correlated Monte Carlo Importance Sampling*, Computer Graphics Forum, 37(4), 2019.

2019 **Matteo Paolo Lanaro, Helene Perrier, David Coeurjolly, Victor Ostromoukhov, Alessandro Rizzi**, *Towards human retinal cones spatial distribution modeling*, MODVIS Computational and Mathematical Models in Vision, May 2019.

2018 **Helene Perrier, David Coeurjolly, Feng Xie, Matt Pharr, Pat Hanrahan, Victor Ostromoukhov**, *Sequences with Low-Discrepancy Blue-Noise 2-D Projections*, Computer Graphics Forum (Proceedings of Eurographics), 37(2), 2018, pp. 339-353.

2018 **Kacper Pluta, Tristan Roussillon, David Coeurjolly, Pascal Romon, Yukiko Kenmochi, Victor Ostromoukhov**, *Characterization of bijective digitized rotations on the hexagonal grid*, Journal of Mathematical Imaging and Vision, 60(5), 2018, pp. 707–716.

2016 **Abdalla Ahmed, Helene Perrier, David Coeurjolly, Victor Ostromoukhov, Jianwei Guo, Dongming Yan, Hui Huang, Oliver Deussen**, *Low-discrepancy Blue Noise Sampling*, SIGGRAPH-Asia 2016, ACM Trans. Graph. 35(6), pp. 247:1–247:13.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2015 **Adrien Pilleboue, Gurprit Singh, David Coeurjolly, Michael Kazhdan, Victor Ostromoukhov**, *Variance Analysis for Monte Carlo Integration*, SIGGRAPH 2015, ACM Trans. Graph. 34(4), pp. 124:1–124:14.

2015 **Michael Kazhdan, Gurprit Singh, Adrien Pilleboue, David Coeurjolly, Victor Ostromoukhov**, *Variance Analysis for Monte Carlo Integration: A Representation-Theoretic Perspective*, arXiv:1506.00021.

2015 **Jonathan Dupuy, Eric Heitz, Jean-Claude Iehl, Pierre Poulin, Victor Ostromoukhov**, *Extracting Microfacet-based BRDF Parameters from Arbitrary Materials with Power Iterations*, EGSR 2015, Computer Graphics Forum, 34(4).

2014 **Florent Wachtel, Adrien Pilleboue, David Coeurjolly, Katherine Breeden, Gurprit Singh, Gael Cathelin, Fernando de Goes, Mathieu Desbrun, Victor Ostromoukhov**, *Fast Tile-Based Adaptive Sampling with User-Specified Fourier Spectra*, SIGGRAPH 2014, ACM Trans. Graph. 33(4), pp. 56:1–56:11.

2013 **Jonathan Dupuy, Eric Heitz, Jean-Claude Iehl, Pierre Poulin, Fabrice Neyret, Victor Ostromoukhov**, *Linear Efficient Antialiased Displacement and Reflectance Mapping*, SIGGRAPH-ASIA 2013, ACM Trans. Graph. 32(6), pp. 211:1–211:11.

2013 **Guillaume Bouchard, Jean-Claude Iehl, Victor Ostromoukhov, Pierre Poulin**, *Improving Robustness of Monte-Carlo Global Illumination with Directional Regularization*, SIGGRAPH-ASIA 2013 briefs, pp. 22:1–22:4.

2013 **David Vanderhaeghe, Victor Ostromoukhov**, *Digital Halftones*, in Michael A. Kriss, Li Yang (eds), Handbook of Digital Imaging, John Wiley & Sons, 2013.

2012 **F. de Goes, K. Breeden, V. Ostromoukhov, M. Desbrun**, *Blue Noise through Optimal Transport*, ACM Trans. Graph. 31(6), pp. 171:1-171:10. (Proceedings of SIGGRAPH-ASIA 2012).

2012 **V. Nivoliers, C. Gerot, V. Ostromoukhov, N. F. Stewart**, *L-system Specification of Knot-Insertion Rules for Non-Uniform B-Spline Subdivision*, Computer-Aided Geometric Design, 29 (2), pp. 150-161, 2012.

2012 **S. Seo, Y. Park, V. Ostromoukhov**, *Image Recoloring Using Linear Template Mapping*, Multimedia tools and applications, 64 (2), pp. 293-308, 2012.

2012 **Victor Ostromoukhov**, *Non-Photorealistic Shading and Hatching*, in Paul Rosin, John Collomosse (eds), Image and Video-Based Artistic Stylization, Springer-Verlag, 2012, pp. 63–76.

2012 **G. Bouchard, J.-C. Iehl, V. Ostromoukhov, B. Péroche, S. Albin, R. Guenegou, C. Uson**, *Specular BSDF Approximation for Efficient Specular Scene Rendering*, Proceedings of International Light Simulation Symposium, 2012.

2009 **Jianghao Chang, Benoit Alain, Victor Ostromoukhov**, *Structure-Aware Error Diffusion*, ACM Transactions on Graphics, Vol.28, No.5, pp. 162:1-162:8, 2009. (Proceedings of SIGGRAPH-ASIA 2009).

2009 **Victor Ostromoukhov**, *Recent Progress in Improvement of Extreme Discrepancy and Star Discrepancy of One-dimensional Sequences*, in Monte-Carlo and Quasi-Monte Carlo Methods 2008, pp. 561-572, Springer-Verlag, 2009.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2008 **Fabrice Rousselle, Petrik Clarberg, Luc Leblanc, Victor Ostromoukhov, Pierre Poulin**, *Efficient Product Sampling using Hierarchical Thresholding*, The Visual Computer, vol. 24(5-7), pp. 465-474, 2008.

2008 **Ares Lagae, Chi-Wing Fu, Victor Ostromoukhov, Craig S. Kaplan, Johannes Kopf, Oliver Deussen**, *Tile-Based Methods for Interactive Applications*, SIGGRAPH 2008 Class, Los Angeles, USA.

2008 **David Vanderhaeghe, Victor Ostromoukhov**, *Polyomino-Based Digital Halftoning*, Proceedings of IADIS International Conference on Computer Graphics and Visualization, pp. 57-64, 2008.

2007 **Victor Ostromoukhov**, *Sampling with Polyominoes*, Proceedings of ACM SIGGRAPH 2007, ACM Transactions on Graphics, 26(3), pp. 78-1–78-6, 2007.

2007 **Simon Bouvier-Zappa, Victor Ostromoukhov, Pierre Poulin**, *Motion Cues for Non-Photorealistic Illustration of Skeletal Motion Capture Data*, Proceedings of NPAR'2007, pp.133-140.

2007 **Charles Donohue, Victor Ostromoukhov**, *Fast Generation of Importance-sampled Point Sets with Associated Delaunay Triangulation*, Proceedings of GRAPHICON'2007, pp.125-130.

2007 **Victor Ostromoukhov**, *Building 2D Low-Discrepancy Sequences for Hierarchical Importance Sampling Using Dodecagonal Aperiodic Tiling*, Proceedings of GRAPHICON'2007, pp.139-142.

2004 **Victor Ostromoukhov, Charles Donohue, Pierre-Marc Jodoin**, *Fast Hierarchical Importance Sampling with Blue Noise Properties*, ACM Transactions on Graphics, Vol. 23, No. 3, pp. 488-495, 2004, Proceedings of ACM SIGGRAPH 2004.

2004 **Martin Côté, Pierre-Marc Jodoin, Charles Donohue, Victor Ostromoukhov**, *Non-Photorealistic Rendering of Hair for Animated Cartoons*, Proceedings of GRAPHICON.

2003 **Victor Ostromoukhov**, *Efficient Color For Efficient Web Applications*, Keynote talk at 8th International Conference on 3D Web Technology, March 9 - 12, 2003, Saint Malo, France.

2003 **P.-M. Jodoin, V. Ostromoukhov**, *Halftoning Over a Hexagonal Grid*, SPIE Vol. 5008, pp. 443-454, 2003.

2002 **F. Durand, M. Agrawala, B. Gooch, V. Interrante, V. Ostromoukhov, D. Zorin**, *Perceptual and Artistic Principles for Effective Computer Depiction*, Course Notes for SIGGRAPH 2002, San Antonio, Texas, July 2002, ISBN 1-58113-518-1.

2002 **P.-M. Jodoin, E. Epstein, M. Granger-Piché, V. Ostromoukhov**, *Hatching by Example: a Statistical Approach*, in Non-Photorealistic Animation and Rendering 2002 (NPAR '02), Annecy, France, June 3-5, 2002.

2002 **Victor Ostromoukhov**, *Techniques de rendu non-photoréaliste (NPR)*, in François X. Sillion (ed.), Synthèse d'images géographiques, pp. 217-250, Editions Hermes Science, 2002. ISBN 2-7462-0450-9.

2002 **P.-M. Jodoin, V. Ostromoukhov**, *Error-Diffusion with Blue-Noise Properties for Midtones*, SPIE Vol. 4663, pp. 293-301, 2002.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2001 **F. Durand, V. Ostromoukhov, M. Miller, F. Duranleau, J. Dorsey**, *Decoupling Strokes and High-Level Attributes for Interactive Traditional Drawing*, Proceedings of Eurographics Rendering Workshop'01, in S.J. Gortler, K. Myszkowski (eds.), Rendeing Rechniques 2001, Springer Computer Science, pp. 71-82, 2001.

2001 **V. Ostromoukhov**, *A Simple and Efficient Error-Diffusion Algorithm*, In Proceedings of SIGGRAPH 2001, in ACM Computer Graphics, Annual Conference Series, pp. 567-572, 2001.

2001 **V. Ostromoukhov**, *Optimal Halftoning for Network-Based Imaging*, SPIE Vol. 4300, pp. 438-443, 2001.

2000 **V. Ostromoukhov**, *(Invited Paper) Artistic Halftoning - Between Technology and Art*, SPIE Vol. 3963, p. 489-509, 2000.

1999 **V. Ostromoukhov**, *Digital Facial Engraving*, Proceedings of SIGGRAPH'99, In ACM Computer Graphics, Annual Conference Series, pp. 417-424, 1999.

1999 **V. Ostromoukhov, R.D. Hersch**, *Multicolor and Artistic Dithering*, Proceedings of SIGGRAPH'99, In ACM Computer Graphics, Annual Conference Series, pp. 425-432, 1999.

1999 **V. Ostromoukhov, R.D. Hersch**, *Stochastic Clustered-Dot Dithering*, Journal of Electronic Imaging, Vol. 8, No. 4, pp. 439-445, 1999.

1998 **E. Stollnitz, V. Ostromoukhov, D. Salesin**, *Reproducing Color Images Using Custom Inks*, Proceedings of SIGGRAPH'98, In ACM Computer Graphics, Annual Conference Series, 1998, pp. 267-274.

1998 **V. Ostromoukhov**, *Mathematical Tools for Computer-Generated Ornamental Patterns*, Electronic Publishing, Artistic Imaging and Digital Typography, Lecture Notes in Computer Science 1375, Springer Verlag, pp. 193-223, 1998.

1998 **V. Ostromoukhov**, *Resolution or more colours ? Making the choice*, Proceedings of the GIGA Information Group European Ink Jet and Thermal Printing Conference, Dusseldorf, 1998.

1998 **N. Rudaz, R.D. Hersch, V. Ostromoukhov**, *An interface for the interactive design of artistic screens*, Electronic Publishing, Artistic Imaging and Digital Typography, Lecture Notes in Computer Science 1375, Springer Verlag, pp. 1-10, 1998.

1998 **V. Ostromoukhov, R.D. Hersch**, *Structure Artifact Free Multi-Level Error Diffusion Algorithm*, International Symposium on Electronic Image Capture and Publishing, Zürich, Proceedings Europto Conf. Series, SPIE Vol. 3409, pp. 215-219, 1998.

1997 **N. Rudaz, R.D. Hersch, V. Ostromoukhov**, *Specifying color differences in a linear color space (LEF)*, Proceedings of the Fifth Color Imaging Conference: Color Science, Systems and Applications, Scottsdale, Scottsdale, 1997.

1997 **R.D. Hersch, V. Ostromoukhov**, *Recent Progress in Digital Halftoning for Color Reproduction*, State of the Art Report, Proceedings of the 7-th International Graphicon Conference on Computer Graphics and Visualization, Moscow, May 21-24, 1997.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

1996 **V. Ostromoukhov, P. Emmel, N. Rudaz, I. Amidror, R.D. Hersch**, *Dithering Algorithms for Variable Dot Size Printers*, IEEE Signal Processing Society, 1996 Intl. Conf. on Image Processing, Proceedings, 1996.

1996 **P. Emmel, I. Amidror, V. Ostromoukhov, R.D. Hersch**, *Predicting the spectral behaviour of colour printers for transparent inks on transparent support*, IS&T/SID 96 Color Imaging Conference: Color Science, Systems and Applications, Proceedings, Scottsdale, Arizona, pp. 86-91, 1996.

1996 **V. Ostromoukhov, P. Emmel, N. Rudaz, I. Amidror, R.D. Hersch**, *Multi-Level Colour Halftoning Algorithms*, Proc. SPIE Vol. 2949, Imaging Sciences and Display Technologies, Symposium on Advanced Imaging and Network Technologies, p. 332-340, 1997. Reprinted in Recent Progress in Digitial Halftoning II (R.Eschbach, ed.) IS&T, pp.166-172, 1999.

1996 **V. Ostromoukhov, N. Rudaz, I. Amidror, P. Emmel, R.D. Hersch**, *Anti-Counterfeiting Feature of Artistic Screening*, SPIE Vol. 2951 Holographic and Diffractive Techniques, pp. 126-133, 1996.

1995 **V. Ostromoukhov, R.D. Hersch**, *Artistic Screening, Proceedings of SIGGRAPH'95*, ACM Computer Graphics, Annual Conference Series, pp. 219-228, 1995.

1995 **V. Ostromoukhov**, *Reproduction couleur par trames irrégulières et semi-régulières*, Ph.D. Thesis No.1330, EPFL, Lausanne, Switzerland, 1995.

1995 **V. Ostromoukhov, R.D. Hersch**, *Halftoning by Rotating Non-Bayer Dispersed Dither Arrays*, Proceedings Conf. Human Vision, Visual Processing and Digital Display VI, SPIE Vol. 2411. pp. 180-197, 1995. Reprinted in Selected Papers on Digitial Halftoning (Jan P. Allebach, ed.) SPIE Milestones Series #154, pp. 238-255, 1999.

1995 **P. Emmel, R.D. Hersch, V. Ostromoukhov**, *A Grid-Based Method for Predicting the Behaviour of Colour Printers*, The third IS&T/SID Color Imaging Conference, Color Science, Systems and Applications, Scottsdale, Arizona, Proceedings, pp. 71-77, 1995.

1995 **R.D. Hersch, V. Ostromoukhov**, *Introduction à la génération d'images en demi-tons*, Cahiers Gutenberg, Vol. 21, pp. 135-166, 1995.

1994 **V. Ostromoukhov, R.D. Hersch, I. Amidror**, *Rotated Dispersed Dither: a New Technique for Digital Halftoning*, Proceedings of SIGGRAPH'94, In ACM Computer Graphics, Annual Conference Series, pp. 123-130, 1994.

1994 **I. Amidror, R.D. Hersch, V. Ostromoukhov**, *Spectral Analysis and Minimisation of Moiré patterns in Colour Separation*, Journal of Electronic Imaging, 3 (3), pp. 295-317, 1994. Reprinted in Selected Papers on Digitial Halftoning (Jan P. Allebach, ed.) SPIE Milestones Series #154, pp. 207-229, 1999.

1994 **V. Ostromoukhov, R.D. Hersch, C. Péraire, P. Emmel, I. Amidror**, *Two approaches in scanner-printer calibration: colorimetric space-based vs. closed-loop*, IS&T/SPIE 1994 International Symposium on Electronic Imaging: Science Technology, San Jose (ed. Motta, Berberian), SPIE Vol. 2170, pp. 133-142, San Jose, 1994.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

1993 **V. Ostromoukhov**, *Pseudo-Random Halftone Screening for Color and Black and White Printing*, Proceedings of the 9th Congress on Advances, Non-Impact Printing Technologies, Yokohama, pp.579-581, 1993. Reprinted in Recent Progress in Digitial Halftoning (R.Eschbach, ed.) IS&T, pp.130-134, 1994. Reprinted in Selected Papers on Digitial Halftoning (Jan P. Allebach, ed.) SPIE Milestones Series #154, pp. 195-202, 1999.

1993 **V. Ostromoukhov**, *Chromaticity gamut enhancement by heptatone multi-color printing*, IS&T/SPIE 1993 International Symposium on Electronic Imaging: Science Technology, San Jose (ed. Motta, Berberian), SPIE Vol. 1909., pp. 139-151, 1993.

1993 **M. Morgan, R.D. Hersch, V. Ostromoukhov**, *Hardware Acceleration of Halftoning*, Society for Information Display. Digest of Technical Papers. Vol.XXIV. pp. 151-154, 1993.

1993 **V. Ostromoukhov**, *Hermite approximation for offset curve computation*, Proceedings of the International Conference on Computer Graphics ICCG93, Bombay, (eds. S.P. Mudur and S.N. Pattanaik), IFIP Transactions B: Graphics, Design and Visualisation, North-Holland, pp.189-196, 1993.

1989 **Jacques André, Victor Ostromoukhov**, *Punk: from METAFONT to PostScript*, Cahiers GUTenberg, Vol. 4, pp. 23-48, 1989.

BOOK CHAPTERS

2013 **David Vanderhaeghe, Victor Ostromoukhov**, *Digital Halftoning*, in Michael A. Kriss, Li Yang (eds), Handbook of Digital Imaging.
John Wiley & Sons Ltd, pp. 943ë982.

,

2012 **Victor Ostromoukhov**, *Non-Photorealistic Shading and Hatching*, in Paul Rosin, John Collomosse (eds), Image and Video-Based Artistic Stylization.
Springer-Verlag

2002 **Victor Ostromoukhov**, *Techniques de rendu non-photoréaliste (NPR)*, in François X. Sillion (ed.), Synthèse d'images géographiques.
Editions Hermes Science

ISSUED PATENTS

2011 **US Patent 7,911,651**, *Method for screening an image*.

2009 **EP Patent EP1549044**, *Method and apparatus for establishing screens by deciding the level of chromatic saturation and error diffusion*.

2009 **EP Patent EP1784973**, *Method for screening an image*.

2008 **EP Patent EP1553754**, *Method and device for establishing frame error diffusion and ink limiting by threshold value matrix*.

2006 **WIPO Patent WO/2006/018554**, *Procedur de Tramage d'une Image*.

2006 **US Patent 7,054,038**, *Method and apparatus for generating digital halftone images by multi color dithering*.

2005 **US Patent 6,870,642**, *Halftoning by enhanced error diffusion*.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2005 **EP Patent EP1562365**, *System and method for image halftoning adapted to use multiple error diffusion paths*.

2002 **US Patent 6,356,362**, *Halftoning by enhanced error diffusion*.

2001 **US Patent 6,198,545**, *Method and apparatus for generating halftone images by evolutionary screen dot contours*.

1999 **US Patent 5,923,774**, *Matrix-based gray component replacement for color halftoning*.

1998 **EP Patent EP0828379**, *Halftoning with gradient-based selection of dither matrices*.

1998 **US Patent 5,737,453**, *Enhanced error-diffusion method for color or black-and-white reproduction*.

1997 **EP Patent EP0806865**, *Matrix-based gray component replacement for color halftoning*.

1997 **US Patent 5,701,366**, *Halftoning with gradient-based selection of dither matrices*.

1995 **US Patent 5,438,431**, *Method and apparatus for generating digital halftone images using a rotated dispersed dither matrix*.

1995 **WIPO Patent WO/1995/027365**, *Procédé et Appareil Produisant des Images en Demi-Teintes à l'Aide de Contours Evolutifs*.

1995 **US Patent 5,422,742**, *Method and apparatus for generating halftone images by discrete one-to-one dither tile rotation*.

CONTRIBUTION TO INTL. PROGRAM COMMITTEES

2009, 2010, 2022, 2024, 2026 **SIGGRAPH**, *TPC member, COI Coordinator*.

2019, 2021, 2022, 2024, 2025 **SIGGRAPH-Asia**, *TPC member, S&P IPC member, COI Coordinator*.

2014 **Eurographics Symposium on Rendering**, *General Co-Chair*.

2016 **Eurographics Symposium on Rendering**, *IPC member*.

2014 **High Performance Graphics**, *General Co-Chair*.

2015 **Computer Graphics International**, *General Chair*.

2002-2018 **Eurographics**, *IPC member (2002-04, 2007-08, 2010, 2013-14, 2017-18)*.

2013 **Eurographics**, *BPA Committee member*.

2017 **Eurographics**, *STAR IPC Co-Chair*.

2009 **GRAPHICON**, *IPC Co-Chair*.

2000-2013 **NPAR, International Symposium on Non-Photorealistic Animation and Rendering**, *IPC member*.

2014-2016 **Expressive**, *IPC member*.

2011 **ISPA**, *Workshop chair*.

2009-2013 **ISVC**, *IPC member*.

Bâtiment Nautibus, 25 avenue Pierre de Coubertin
69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*

2005-2010 **Visualization, Imaging, and Image Processing**, *IPC member*.
2005-2007 **Computer Graphics Theory and Applications**, *IPC member*.
2003-2004 **Pacific Graphics**, *IPC member*.
2004 **Intl. Conference on Comp. Graphics and Visualization**, *IPC member*.
2000 **SPIE, Device-Independent Color Imaging Conference**, *IPC member*.

EDITORIAL ACTIVITIES

2015-now **The Visual Computer**, *Springer*.
Associate Editor

2016-now **Computer Graphics Forum**, *Wiley*.
Associate Editor

2020-now **Mathematics**, *MDPI*.
Associate Editor

2009-2016 **Computers and Graphics**, *Elsevier*.
Associate Editor

REVIEWING

2000-now **IEEE Transactions on Visualization and Computer**.
2000-now **IEEE Transactions on Image Processing**.
2000-now **IEEE Computer Graphics and Applications**.
2000-now **ACM Transactions on Graphics**.
2000-now **ACM Journal of Graphics Tools**.
2009-now **The Visual Computer**.
2002-now **Computer Graphics Forum**.
2003-now **Computers and Graphics**.
2000-now **Journal of Electronic Imaging**.
2002-now **Optics Letters**.
1994-now **SIGGRAPH**.
2007-now **SIGGRAPH ASIA**.
1997-now **Eurographics**.
2000-now **Eurographics Workshop on Rendering**.
2001-now **Graphics Interface**.
2000-now **NPAR, International Symposium on Non-Photorealistic Animation and Rendering**.
1995-now **SPIE Electronic Imaging Intl. Conference**.

LANGUAGES

French **Fluent**
English **Fluent**
Russian **Mother tongue**

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69622 Villeurbanne Cedex FRANCE
☎ *+33 4 72 44 83 70* • ✉ *victor.ostromoukhov@liris.cnrs.fr*