Alisson Sol - Physicist, Software Engineer, General Manager

Alisson Sol
Master of Science in Computer Science
Cambridge General Management Certificate

Email: email@AlissonSol.com   Website: www.AlissonSol.com   LinkedIn: https://www.linkedin.com/in/alissonsol/

Fields of Interest

- Image Processing, Computer Vision, ERP, Big Data, Machine Learning, Distributed Systems, Security, Health, Finance

Co-author of patent applications

10 USA patents granted, number in parenthesis

- 2005/05/13 – Method and System for Document Assembly (2009/08/19: 7,577,906)
- 2005/05/18 – Flexible Data-Bound User Interfaces
- 2005/05/23 – System and Method for Integrated Management of Components of A Resource
- 2005/06/30 – Manipulation of Information Embedded in Content (2010/07/20: 7,761,924)
- 2005/07/05 – Metadata-Based Form Rendering and Write-Back
- 2007/01/12 – User Interface for Selecting Members from a Dimension
- 2007/02/28 – Rendering Database Queries with Blank Space (2009/11/10: 7,617,221)
- 2007/03/07 – Techniques to Manage Information for Dynamic Reports Using Time Periods for a Business Model (2012/08/07: 8,239,248)
- 2007/10/31 – Method for Capturing Design-time and Run-time Formulas Associated with a Cell (2012/12/25: 8,341,512)
- 2010/10/19 – Synthetic Gesture Trace Generator
- 2014/07/16 – Volatility-based classifier for security solutions (2016/11/01: 9,485,263)
- 2014/10/20 – Behavior Change Detection System for Services (2017/04/11: 9,619,648)
- 2015/03/30 – Testing Frequency Control using a Volatility Score (2018/02/27: 9,906,542)
- 2015/05/22 – Template Identification for Control of Testing (2017/08/01: 9,720,814)
- 2015/07/13 – Recognition of behavioural changes of online services
- 2016/06/29 – Scalable Computer Vulnerability Testing
- 2016/07/20 – Compliance Violation Detection (2021/06/21: 11,042,506B2)

Microsoft Research Technology Transfer Awards

- 2008/07/25 – MSR AutoCollage 2008
- 2009/06/30 – MSR AutoCollage Touch '09
- 2011/08/11 – Mouse 2.0 Technologies
- 2012/02/01 – Multi Core Exemplar
- 2012/05/21 – ST Pipeline Refactoring (Skeleton Tracking)
- 2013/03/18 – Hand Grip Recognizer
- 2013/03/18 – KinectFusion

Microsoft Gold Star Awards

- 2003/02/21 – Microsoft Business Solutions for work in the .NET Business Framework
- 2005/06/23 – Office Business Applications for contributions for both MS forecast project and Billg demo, as well as leading PerformancePoint Excel client subsystem
- 2008/12/05 – Microsoft Research for work in the Microsoft AutoCollage 2008
- 2009/12/04 – Microsoft Research for work in Microsoft Research AutoCollage Touch 2009 and other tech transfers

Professional Experience

Stealth Startup | Co-founder | February 2026 – Present
- Building early-stage AI startup translating state-of-the-art world models research into practical frameworks for Edge AI security and safety across robotics and enterprise network infrastructure.
- Leading core technical research, prototype development, architectural validation, and product definition including customer-focused requirements and go-to-market strategy.

Capital One | VP of Software Engineering | January 2024 – January 2026
- Recruited to lead a 120-person Endpoints & Automation Engineering organization managing enterprise computing infrastructure for tens of thousands of employees. Improved cybersecurity posture, privacy compliance, accessibility standards, and edge AI deployment readiness.
- Launched Alaric, an end-to-end endpoint test harness enabling continuous validation of application and connectivity access before production deployment.
- Led STAMP (Software Trust and Approval Management Program) end-to-end, from PRFAQ to operation, deploying an automated vetting system enforcing endpoint application allow lists. Replacing manual workflows, STAMP cut median approval times from weeks to six hours while strengthening security compliance.

Google | Senior Engineering Manager | May 2022 – December 2023
- Directed Security Defense Platforms within Privacy, Safety & Security, managing geographically distributed teams across New York and Zurich focused on Enterprise Protection Platform and Security Endpoint Agents, the team responsible for Google open-source projects like Santa and GRR.
- Strengthened enterprise security posture by delivering infrastructure enabling granular policy enforcement for endpoint applications and privileged access controls, reducing organizational cyberattack exposure.
- Transformed team execution and accountability, improving OKR completion rates from 45% to 70% year-over-year while raising goal difficulty thresholds and establishing sustainable delivery practices.

Microsoft Corporation | Group Engineering Manager | September 2019 – April 2022
- M365 IC3 (Jan 2022 – Apr 2022): Drove Engineering Systems strategy and process optimization for Microsoft Teams backend infrastructure.
- AI Frameworks (Nov 2020 – Jan 2022): Managed ONNX runtime training, directing compute acceleration and infrastructure for AI model training including PyTorch integration. Managed both the white-glove teams interacting with internal and external customers and the team optimizing the execution providers for the specialized hardware acceleration.
- M365 IC3 (Sep 2019 – Oct 2020): Managed USA and Estonia teams for real-time backend powering Teams, Skype, and Skype for Business. Scaled services by 100x during 2020 pandemic while establishing the calling, meetings, and PSTN data team.

Amazon.com | Senior Software Development Manager | July 2017 – August 2019
- WorkSpaces (Feb 2019 – Aug 2019): Managed infrastructure teams for AWS secure cloud desktop service. Drove up manager, job, and teammate satisfaction while solving long-standing DevOps and customer problems.
- Dropship (Jul 2017 – Jan 2019): Led online services for real-time inventory, order processing, and transportation integrations for direct fulfillment. I implemented a new work prioritization and tracking processes that reduced technical debt while adding first new country stack in 9 years (India). Engineers considered that key to a fair performance assessment, which was a key complaint before in that team. The outcome was a reduction in team turnover from 50% to 5%.

Microsoft Corporation | Engineering Manager / Architect / Dev Lead | March 2000 – June 2017
4 Gold Star Awards | 7 Microsoft Research Technology Transfer Awards | 17 patent applications (10 granted)
- AI+R Core Architect & Manager (May 2013 – Jun 2017): Led SPACE (Security, Privacy, Accessibility, and Capacity Engineering) team supporting Bing, MSN, Cortana, and AI APIs. Developed request management and capacity modeling tools for millions of machines across multiple data centers.
  - Engineering Manager for AI Core Spartans group, a group of software engineers and data scientists working on special projects in the Artificial Intelligence area, expanded as a division onboarding team.
  - Led the development of security automation projects, including WebSec (presented at DefCon) and the unified URL Reputation service.
- Kinect for Windows (Nov 2011 – Apr 2013): Founding team member. Recruited and managed Computer Vision team for Kinect SDK shipped in 32 countries with 500K+ downloads. Implemented gesture recognition ML module and led KinectFusion tech transfer.

- Microsoft Research Cambridge (Feb 2007 – Jul 2010): Managed rapid evaluation and incubation of research for product transfer including Microsoft Touch Mouse and AutoCollage (first Microsoft Research project integrated with Windows Update). Managed partnership for tech transfers internally and externally (Wayve, Nimbus, and Pastry, among others)
- Earlier Roles (Mar 2000 – Jan 2007): Development Lead for PerformancePoint Server, Information Bridge Framework, Business Framework workflow UI, and BizTalk Orchestration Designer.

CODEMIG | Information Technology Consultant | September/1994 – February/2000
- CODEMIG - Companhia Mineradora of Minas Gerais (http://www.codemig.com.br/)
- Activities: General advice on Information Technology subjects for the whole company; Writing of Technical and Legal projects and proclamations, etc.; Responsible for maintenance of company web site
- Consultant for all IT subjects for public mining company, including CAD (Computer-Aided Design), financial and HR systems.
- Main system development projects
- Analysis, design and development of system for data entry, update and queries about company stockholder information;
- Analysis, design and development of system to capture data from time clocks and calculate personnel work time;
- Analysis, design and development of system for information maintenance about company third part contracts.
- Main technology implementation projects
- Specification, installation and configuration of hardware and software for company connection to Internet;
- Installation and configuration of Sun workstations, including hardware (printer, tape units, CD-ROM, etc.) and software (image processing systems) for geoprocessing applications.

Micro Universo | Systems Architect | July/1995 – June/1999
- Micro Universo Informática S/A (http://www.microuniverso.com.br)
- Activities: Systems Analysis and Design for ERP (Enterprise Resource Planning) system; Model design was done with Rational Rose and relational scheme was automatically generated from model using Visual BASIC Automation script. The resulting object-oriented model had more than 200 classes and 1200 attributes, with reuse factor of 5 (more than 1000 tables would be needed in a pure relational model).
- Main tools: Rational Rose, Centura Builder (ex-SQLWindows), Visual BASIC

Last One | Information Technology and Quality Management Consultant | May/1998 – February/2000
- Activities: Specify, install and configure software for company Intranet and Internet site; Instructor for company Total Quality Management program
- Main tools: Microsoft Windows NT Server - Terminal Server Edition, Microsoft Proxy Server, Microsoft IIS, Microsoft Site Server - Commerce Edition, DCOM, Microsoft Transaction Server, Microsoft SQL Server, Microsoft Visual Studio
- Main projects: Analysis and Design of Internet video rental system from company Web site; Analysis, Design and Development of Intranet system for customer order tracking

IEF – MG | Information Technology Consultant | July/1997 – December/1997
- IEF-MG – Instituto Estadual de Florestas de Minas Gerais (http://www.ief.mg.gov.br)
  Winner of public competition 018/97 (Contract: 0101000697)
- Activities: Technical review of bought equipment and installation of software in Windows NT network for regional offices. Configuration of clients with Windows and Linux in 108 workstations for geoprocessing, 5 monitoring workstations, 13 workstation for foment system e 4 other workstations

ADM Control | Research and Development Manager | December/1993 – July/1995
- ADM Control Informática (Today part of RM Sistemas – http://www.rm.com.br)
- Activities: Programmers management and training; Analysis and design of a client/server system for Project Budget and Task control
- Main tools: Rational Rose, Microsoft Visual C++, Microsoft SQL Server, Watcom SQL Server

COMIG | Systems Analyst | June/1992 – January/1993
- COMIG - Companhia Mineradora de Minas Gerais - Admission by Public Competition in 1st place
- Activities: Systems analysis and development; Administration of computer network
- Main tools: SunOS, Microsoft C/C++, ER Mapper, AutoCAD

CREDIREAL | Systems Analyst | March/1992 – June/1993
- CREDIREAL Serviços Gerais e Construções S/A
- Activities: Information Technology Consultant

EDIMINAS | Systems Analyst | January/1991 – November/1991
- EDIMINAS S/A (http://www.hojeemdia.com.br)
- Activities: Applications development for internal use; Installation and maintenance of the computer network for the "Hoje em Dia" newspaper; Author of the "Technology" column for the Computer Science page from July/1991 to February/1993

Internship and academic assistance
- DCC/UFMG - 2nd term 1991 - Post-Graduation teaching assistant: Numerical Calculus
- LCC/UFMG - Scientific Computation Lab. - November/1986 to July/1988 - Internship
- DCC/UFMG - March/1987 to December/1987 - Scientific scholarship - Project: Development of specialist system for linear algebraic equation systems resolution
- DCC/UFMG - May/1986 to December/1986 - Graduation teaching assistant: Numerical Calculus
- Chemical Dept./UFMG - March/1986 to August/1986 - Internship: Electronics Technician

Curricular Education

Cambridge General Management Certificate
- Cambridge Judge Business School, University of Cambridge, Cambridge, United Kingdom
- December/2009

Doctoral Degree on Computer Science
- UFMG - Federal University of Minas Gerais, Belo Horizonte, MG, Brazil (http://www.ufmg.br)
- Area: Software Engineering, Digital Image Processing, Multimedia, Distributed Processing
- March/1993 – Unfinished - Proposed work: metamodel for distributed multimedia processing
- Approved in Qualification Exam

Master's Degree on Computer Science
- UFMG - Federal University of Minas Gerais, Belo Horizonte, MG, Brazil (http://www.ufmg.br)
- Computer Science Department (http://www.dcc.ufmg.br)
- Area: Digital Image Processing, Software Engineering (http://www.npdi.dcc.ufmg.br)
- March/1990 to March /1993
- Dissertation: PhotoPix: an object-oriented framework for digital image processing systems

Post Graduation studies on Electrical Engineering
- USP - University of São Paulo, São Paulo, SP, Brazil (http://www.usp.br)
- Area: Microeletronics
- August/1988 to December/1989

Graduation on Physics, BSc
- UFMG - Federal University of Minas Gerais, Belo Horizonte, MG, Brazil (http://www.fisica.ufmg.br)
- March/1985 to July/1988

Electronics Technician
- CEFET/MG - Federal Center for Technological Education of Minas Gerais, Belo Horizonte, MG, Brazil (http://www.cefetmg.br)
- From 1982 to 1984

Extracurricular Education, Experiences and Professional Certification

MCSE (Microsoft Certified Systems Engineer) ID: 1417594

Java Certification

- Sun Certified Programmer for the Java™ 2 Platform; Site Number: BR 16; Test: 310-025; Candidate ID: SP1837095; March/1999; Validation: http://www.galton.com/~sun/

French Language Course

- FALE/UFMG - Faculty of Letters of UFMG, Belo Horizonte, MG, Brazil
- 240 hours - March/1993 to June/1995

Student volunteer for "SIGGRAPH 93"

- Sponsor: ACM SIGGRAPH - Anaheim Convention Center, Anaheim, CA, USA
- August/01-05/1993

English Language Course

- FALE/UFMG - Faculty of Letters of UFMG, Belo Horizonte, MG, Brazil
- 180 hours - August/1985 to November/1986

Certificate of Proficiency in English

- The University of Michigan - English Language Institute, November 27, 1993

ACM member – Association for Computing Machinery

- Member number: 4184479

Main Published papers

Protect Your Online Services with Big Data and Machine Learning
- Alisson Sol, Don Ankney, Eugene Bobukh
- MSDN Magazine
- January/2015

PhotoPixJ: uma Plataforma para Processamento Digital de Imagens em Java
- A.C.R. de Almeida, A.A.S. Sol & A. de A. Araújo
- XI SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing (In Portuguese)
- October/20-23/1998, Rio de Janeiro, RJ, Brazil

A Metamodel for Distributed Multimedia Processing Systems Development
- A.A.S. Sol & A. de A. Araújo
- III Workshop of Thesis in Software Engineering of the XII SBES - Brazilian Symposium of Software Engineering
- October/13-16/1998, Maringá, PR, Brazil

PhotoPixJ: Plataforma em Java para Implementação de Algoritmos de Processamento Digital de Imagens
- A.C.R. de Almeida, A.A.S. Sol & A. de A. Araújo
- XII SBES - Brazilian Symposium of Software Engineering (In Portuguese)
- October/13-16/1998, Maringá, PR, Brazil

PhotoPixJ
- A.C.R. de Almeida, A.A.S. Sol & A. de A. Araújo
- Educational Software Session of IV WIE - Workshop of Computer Science in the School, during the XIX Congress of the SBC (Brazilian Computer Society)
- August/07/1998, Belo Horizonte, MG, Brazil

PhotoPix: an Object-Oriented Framework for Digital Image Processing Systems
- A.A.S. Sol & A. de A. Araújo
- Image Analysis and Processing - 8th International Conference, ICIAP ' 95 San Remo, Italy, September/13-15/1995
- (Lecture Notices in Computer Science. Vol. 974, pp. 109-114, ISBN 3-540-60298-4, Springer-Verlag, 1995)

PhotoPix: uma Plataforma para Sistemas de Processamento Digital de Imagens Orientada para Objetos
- A.A.S. Sol & A. de A. Araújo
- Proceedings of the VI SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing (In Portuguese)
- Mar Hotel, Recife, PE, Brazil, October/19-22/1993, pp. 65-73

PhotoPix: a Color Quantization System
- A.A.S. Sol & A. de A. Araújo
- Proceedings of the 1993 PCS'93 - Picture Coding Symposium, pp. 18.12-14
- Swiss Federal Institute of Technology, Lausanne, Switzerland, March/17-19/1993

Extraction of Linear Geologic Structures from Remote Sensing Orbital Images
- A. de A. Araújo, B.S. Soares Filho & A.A.S. Sol
- Proceedings of the XVII Congress of the ISPRS - International Society for Photogrammetry and Remote Sensing
- Washington, DC, USA, vol. XXIX, Part B7, 1992, pp. 592-594

Otimização da Exploração Mineral com Uso de PDI e SGI na Plataforma SPARC

- J. C. Christophe da Silva, C.R. Franca, A.A.S. Sol & C.T. Carvalho
- 5th National Seminar "The Computer and its Application in the Mineral Sector", Proceedings... (In Portuguese)
- Belo Horizonte, MG, Brazil, August/17-19/1992

Geoexplo: Implantação de um SGI para Exploração Mineral

- J. C. Christophe da Silva, C.R. Franca, A.A.S. Sol & C.T. Carvalho
- Brazilian Congress of Geology, Proceedings... (In Portuguese)
- São Paulo, SP, Brazil, 1992

Epitaxial Regrowth of Silicon on Sapphire by Rapid Isothermal Processing

- R. Madarazo, A.G. Pedrine, A.A.S. Sol & V. Baranauskas
- SPIE's Technical Symposium on Microelectronic, Processing & Integration (SPIE - Society of Photo-Optical Instrumentation Engineers)
- Santa Clara Marriot Hotel, Santa Clara, CA, USA, October/03/1990

SIRINEL User Manual

- Newton R. dos Santos & A.A.S. Sol
- Technical Report 009/1990 - DCC - ICEx - UFMG (Department of Computer Science of the Exact Sciences Institute of the Federal University of Minas Gerais), Belo Horizonte, MG, Brazil

Re-Epitaxia de Silício sobre Safira por Processamento Térmico Rápido

- R. Madarazo, A.G. Pedrine, A.A.S. Sol & V. Baranauskas
- X CBRAVIC - Brazilian Congress of Applications for Vacuum in Industry and Science (In Portuguese)
- Technological Institute of the Aeronautics, São José dos Campos, SP, Brazil, July/26/1989

Main Presented Courses

Instructor for the Microsoft Engineering Excellence
- Course: "Engineering at Microsoft", "Development at Microsoft for SDE I", "Development at Microsoft for SDE II", "Development at Microsoft for Senior SDEs", "Javascript Fundamentals", "Agile Development Lab in C#", "Agile Development Lab in C++".
- August/2010 to October/2011, 300+ hours

Mini-course "XQuery and XPath"
- IX SBLP – Brazilian Symposium on Programming Languages
- May/24/2005, Recife, PE, Brazil, 3 hours

Mini-course ".NET 2.0 Programming"
- IX SBLP – Brazilian Symposium on Programming Languages
- May/23/2005, Recife, PE, Brazil, 3 hours

Mini-course "Introduction to the C# Language"
- VII SBLP – Brazilian Symposium on Programming Languages
- May/30/2003, Ouro Preto, MG, Brazil, 3 hours

Mini-course "Introduction to the .NET Framework"
- VII SBLP – Brazilian Symposium on Programming Languages
- May/29/2003, Ouro Preto, MG, Brazil, 3 hours

Administration of Windows NT Servers
- Catholic University of Minas Gerais
- May/23/1998 to June/06/1998, Institute of Computer Science of PUC Minas, 24 hours

Instructor for the Extension Course in Systems Analysis of FUNDEP/UFMG
- Course: AS95-1; Disciplines: "Software Laboratory", "Laboratory of Information Systems", "Laboratory of Applications Development", "Visual Development Environments I, II, III"
- April/05/1995 to November/09/1995, DCC/ICEx/UFMG, Belo Horizonte, MG, Brazil, 123 hours

Software Development for the Windows Environment
- State University of Maringá - PET/CAPES
- December/14-16/1994, State University of Maringá, Maringá, PR, Brazil, 20 hours

Laboratory of Applications Development
- Discipline for the Extension Course in Systems Analysis of FUNDEP/UFMG (AS 94-2) (FUNDEP - Foundation for the Research Development)
- November/07/ 1994 to December/01/1994, DCC/ICEx/UFMG, Belo Horizonte, MG, Brazil, 33 hours

Mini-course "Programming for the Microsoft Windows Environment"
- 1st Computer Science Week of the UFV
- November/11/1993, Federal University of Viçosa, Viçosa, MG, Brazil, 6 hours

Mini-course "Programming for the Microsoft Windows Environment"
- XII JAI - Computer Science Update Journey, during the XIII Congress of the Brazilian Computer Society
- September/07-09/1993, Hotel Cambirela, Florianópolis, SC, Brazil, 6 hours

Programming in the C/C++ Language for the Microsoft Windows Environment
- FUNDEP - Foundation for the Research Development
- September/15/1992 to October/29/1992, DCC/ICEx/UFMG, Belo Horizonte, MG, Brazil, 60 hours

Advanced Windows
- FUNDEP - Foundation for the Research Development
- March/30/1992 to April/09/1992, DCC/ICEx/UFMG, Belo Horizonte, MG, Brazil, 24 hours

Introduction to the Windows Graphical Interface
- FUNDEP - Foundation for the Research Development
- November/26/1991 to December/17/1991, DCC/ICEx/UFMG, Belo Horizonte, MG, Brazil, 21 hours

Introduction to VM/CMS
- LCC/UFMG - Laboratory of Scientific Computation of UFMG
- Several occasions from November/1986 to July/1988, LCC/UFMG, Belo Horizonte, MG, Brazil, 20 hours

Main Presented Lectures

AI & Big Data Expo North America 2025
- Debugging Your AI Solution - slides
- Bad Data In, Years of Useless Analysis - then Purged - slides
- June/04/2025, Santa Clara Convention Center, Santa Clara, CA, US

DATAnalyze 2021
- Opening ceremony presentation
- October/08/2021, Online

AI circa 2018
- Presentation during event for The Boeing Company
- Sep/24/2018, Bellevue, WA, USA

Real-world Machine Learning: How Kinect Gesture Recognition Works
- Presentation during Windows Build 2013: slides + video
- Jun/26/2013, San Francisco, CA, USA

Computer Vision in the Kinect for Windows
- Part of tutorial "Towards Solving Real-World Vision Problems with RGB-D Cameras", during CVPR 2013
- Jun/23/2013, Portland, OR, USA
- Workshop of Industry Applications during XXV SIBGRAPI
- Aug/24/2012, Ouro Preto, MG, Brazil

Fundamentals of Distributed Systems Microsoft Engineering Excellence Forum 2011
- Fundamentals of Distributed Systems
- Cloud Security
- Jun/08/2011, Redmond, WA, USA

Pragmatic Security (in the cloud and on Earth)
- Microsoft Fargo Engineering Day 2011
- May/03/2011, Fargo, ND, USA

Reusing Your Knowledge (in Portuguese)
- Unicamp – Universidade Estadual de Campinas
- March/30/2010, Campinas, São Paulo, Brazil
- Microsoft Brasil, for students of IME/USP – Mathematics and Statistics Institute/University of São Paulo
- March/31/2010, São Paulo, SP, Brazil

Debugging Your Mindset
- NxtGenUG Fest 09
- June/12/2009, Cambridge, United Kingdom

Doing Software in Large Software Companies
- NxtGenUG Event
- March/17/2009, Cambridge, United Kingdom

AutoCollage: The experience of going from a paper to a product
- Laboratoire d'Informatique de Paris 6
- January/16/2009, Paris, France
- XXI SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing – Invited Speaker
- October/15/2008, Campo Grande, MS, Brazil

- IME/USP – Mathematics and Statistics Institute/University of São Paulo
- October/14/2008, São Paulo, SP, Brazil

Tutorial "A Service-Oriented Application for an Enterprise Datacentre"
- Research meeting "The Rise and Rise of the Declarative Datacentre"
- May/12/2008, Cambridge, United Kingdom

Tutorial "Digital TV: The Software Components"
- XX SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing
- October/07/2007, Belo Horizonte, MG, Brazil
- Centro Federal de Educação Tecnológica de São Paulo
- October/05/2007, São Paulo, SP, Brazil
- Universidade Estácio de Sá
- October/04/2007, Rio de Janeiro, RJ, Brazil

SBTVD and Microsoft TV Technologies
- XIX SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing
- October/08/2006, Manaus, AM, Brazil

Applying academic knowledge in the Software Industry: caveats and comparisons between Brazil, USA and India
- IX SBLP - Brazilian Symposium on Programming Languages
- May/23/2005, Recife, PE, Brazil

Tutorial "Web Services and Implications in Software Development"
- XVI SBES - Brazilian Symposium of Software Engineering
- October/17/2002, Gramado, RS, Brazil, 3 hours

Tutorial "Development of Digital Image Processing Systems in the Java(tm) Language"
- IX SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing
- October/29/1996, Caxambu, MG, Brazil, 4 hours

Programming in C++ for the Windows Environment
- Cycle of Lectures in Computation
- October/18/1994, Catholic University of Minas Gerais, Belo Horizonte, MG, Brazil

Distributed Processing in Windows NT
- 1st Microsoft Solutions Seminar
- December/13/ 1993, São Paulo, SP, Brazil

Porting Programs in C++/MFC to Windows NT
- 1st Microsoft Solutions Seminar
- December/13/ 1993, São Paulo, SP, Brazil

Introduction to C++ Programming for Windows
- 3rd Microsoft Developers Seminar
- May/12/1993, São Paulo, SP, Brazil

Tutorial "Programming for the Windows Environment"
- V SIBGRAPI - Brazilian Symposium of Computer Graphics and Image Processing
- November/09/1992, Águas de Lindóia, SP, Brazil, 6 hours

Introduction to C++ Programming using the MFC Library
- 2nd Microsoft Developers Seminar
- November/05/1992, São Paulo, SP, Brazil