

# **CURRICULUMVITAE**



**Prof. Dominique Genoud** 





### Contact

**Title** Prof. Dr. Ing. Dipl EPFL en microtechnique

First name Dominique Family name Genoud

Address HES-SO Valais, Technopôle 3

 City
 3960 Sierre

 Country
 Switzerland

 Phone
 +41 27 606 9013

 Mobile
 +41 79 789 4153

**E-Mail** Domnique.genoud@hevs.ch

Website eEnergy.hevs.ch

# Biography

Dominique Genoud studied at the Federal institute of Technolgy in Lausanne Switzerland (EPFL), he then worked in different places in Switzerland as Software and hardware engineer. From 1995 to 1999 he was researcher at IDIAP Switzerland in voice recognition and biometrics systems where he obtained his PhD thesis in Information systems.

In 1999 he made a postdoctoral at ICSI UC Berkeley. From 1999 to 2002 he worked as senior research engineer at Nuance Communications in Menlo Park California. Dominique Genoud has several international publications (articles, books and patents) in the fields of biometrics and data analysis systems, etc.

From 2002 to 2006 he worked as manager at Polyright, a Swiss company active in software products for RFID solutions. Since 2006 he is CEO of Loutze-informatique.com, a software company that he founded. He joined the software engineering unit of the Business Information Systems Institute at HES-SO Valais in 2010. Dominique current research activities are focused on information systems for energy (smart-grids/micro-grids) and multisource intelligent data analysis applied in domain such as biotechnology, pharama and energy.













### Research Interest

Intelligent data analysis, data mining, machine learning, Business intelligence, smart information systems, information systems for energy.

### Skills

Computer science for data intelligence and machine learning, Software management (development, production, maintenance), project management (standard and agile).

### Education

1999	PhD in technical science (computer science) Federal Institute of Technology of Lausanne (EPFL), Switzerland
1992	Postgraduate certificate in biological and artificial neural networks Federal Institute of Technology of Lausanne (EPFL), Switzerland
1989	Engineering Diploma of EPFL (Microtechnic) Federal Institute of Technology of Lausanne (EPFL), Switzerland
- 1	Experience
Since 2010	HES-SO Valais, Sierre, Switzerland Position as full professor in computer science
Since 2006	Loutze-informatique, Chamoson, Switzerland CEO and owner
2002 – 2006	Polyright SA, Sion, Switzerland AQ and IT manager, member of the steering board.
1999 – 2002	Nuance Communications, Menlo Park, California, USA Senior research&software engineer in the speech domain
1999	ICSI, University of California Berkeley, USA Postdoctoral position in speech recognition
1995 – 1999	IDIAP, Martigny, Switzerland PhD student in speaker recognition voice transformation domain
1994 – 1995	IDIAP, Martigny, Switzerland Research engineer in speaker recognition
1993 –	Round the world trip



1994





1992 – 1993	CIMTEC, Sion, Switzerland Project leader in Quality insurance, IT manager
1991 – 1992	Ecole d'ingénieurs du Valais, Sion, Switzerland Project leader precision measurement systems
1989 – 1991	Nagra-Kudelski, Cheseaux, Switzerland Software and hardware developer for digital tape recorder
- 1	Projects (small selection)
2011 – 2014	IoT6 (FP7) Ipv6 protocol for Internet of Things
2011 – 2013	MDIS (RCSO) Multi-source Data Intelligence Services
2011 – 2012	Sensimed (CTI) Glaucoma information system
2011 – 2012	E-ICT Intelligent information system for energy in the buildings
2012 – 2013	Sensimed diagnosis (CTI) Advanced signal analysis technologies for the early detection of glaucoma
2012 – 2013	iBATS (The Ark energy) Intelligent information system for electrical micro-grids
2012 – 2013	Protein folding analyzer (HESSO) Information system o store, analyze and visualize data from protein folding







## **Teaching activities – Courses**

#### Since 2010 Information system development (Bachelor HES-SO)

Handling modern frameworks and software development platforms for the information

systems

#### Since 2010 Object oriented software development (Bachelor HES-SO)

Object oriented concepts using java language

#### Since 2011 Distributed programming (Bachelor HES-SO)

Concepts of distributed programming

#### Since 2011 Agile software development management (Bachelor HES-SO)

Agile methods applied to the professional development

#### Since 2011 Advanced data management (Bachelor HES-SO)

Data mining, intelligent software analysis inserted in the information system

### Publications - Journal articles

Selection, all publications available from http://publications.hevs.ch

#### Update in bioinformatics: Toward a digital database of plant cell signalling networks: 2005

advantages, limitations and predictive aspects of the digital model

[G05] Trevino santa Cruz Marcela Beatriz, Genoud Dominique, Metraux Jean-Pierre, Genoud Thierry, ", Journal of Phytochemistry ISSN 0031-9422, 2005, vol. 66, no3, pp.

267-276 [10 page(s) (article)] (1 p.1/2)

#### 1998 An overview of the CAVE project research activities in speaker verification

submitted to SpeechCom journal, 1998.

(with F.Bimbot, M.Blomberg, L.Boves, H.P.Hutter, C.Jaboulet, J.Koolwaaii, J.Lindberg and

J.B.Pierrot)

#### Polycost: a telephone-speech database for speaker recognition, 1998

submitted to SpeechCom journal, 1998.

(with D.Petrovska, J.Henneberg, and H. Melin)

#### 1997 Acoustic-Labial Speaker Verification

in Pattern Recognition Letters, 18:9, pp 853-858, 1997.

(with P.Jourlin, J.Luettin and H.Wassner)







### Publications – Conference and workshop papers Selection, all publications available from http://publications.hevs.ch 2012 Demand forecasting and smart devices as building blocks of smart micro grids René Schumann, Dominique Genoud To appear in IEEE International Workshop on Extending Seamlessly to the Internet of Things (esloT'12), IMIS-2012 conference, Palermo, Italy 2002 Combining speaker and speech recognition systems With L.Heck, In proc of ICSLP 2002, Denver Co, 2002. 2001 Integrating Speaker and Speech Recognizers: Automatic Identity Claim Capture for **Speaker Verification** With L.Heck, in IEEE, A Speaker Odyssey The Speaker Recognition Workshop, Crete, 2001. 1999 Client/world model synchronous alignement for speaker verification, with J.Mariethoz, F.Bimbot and C.Mokbel in proc of EUROSPEECH-99, Budapest, 1999. 1999 Deliberate imposture: a challenge for automatic speaker verification systems. with G.Chollet in proc of EUROSPEECH-99, Budapest, 1999. Speech pre-processing against intentional imposture in speaker recognition 1998



With G.Chollet

in proc. of ICSLP-98, Sidney, 1998.