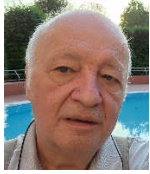


Dr. PETRE DINI



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Scientific activity at a glance

- (partially) **retired** | (mostly) **volunteering** | enjoying (affordable) **traveling**
- **Past topics**: mathematics, VLSI, formal languages, protocol V&V, real-time embedded systems, nomadic code, active routing, software arch, (AT&T) IMS, (Cisco) IOS, Router Fault Manager, Router Performance Manager, etc.
- **Academics**: U de Montreal, Concordia U, McGill U, | (AT&T) Stanford, (Cisco) Berkeley, China Space Agency Center - Beijing | Cisco-IBM Coop Dir., AT&T-Cisco Coop. Dir.
- **Industrial/research**: CRIM (R&D), AT&T, Cisco Systems, Inc., Intl Standardization Bodies (ITU, TMF, IETF, IEEE)
- **Salient**: About 15 US Cisco patents, (co)supervisor: 38 Master&PhD students
- **Current hobbies**: brain-activities, self-x, systems/apps adaptation, conflicts in decision policies, crowd-in-the-middle, reflective (twin) architectures, new trends in software development (apps)
- **Open**: how can a piece of software realize by itself (or by any other means) that a copy of that piece was (? illegally) made somewhere [[see Cloud, Quantum Computing](#)]

Applied Traditional (read-True vs Generative) AI

- **Petre: 1980/90**
 - Fuzzy-based resource allocation, Automatic knowledge incorporation, CAD/CAM Expert Systems,
 - Real-time embedded systems, Space/time thinking and processing, Multi-layers context-based meaning
- **Petre: 1992**: The First ITC Conference (Montreal), tutoring systems, self-adaptable Q&A professor-student systems (advanced Chatbots)
- **Petre: 1997** Dartmouth, Mobile Intelligent Agents (Intelligent Grasshopper Polling)
- **Petre: 1997-2000**: Nomadic code, Mobile agents, (Grasshopper EU project)
- **Petre: 2000-2010**: Autonomous systems, Policy-driven systems, Intelligent systems (Patents, ITU, TMF, IEEE)
 - Capturing emerging properties, Variable pooling frequency, Self-adaptable decision policies, Reflexive-policies (Digital-Twins)
 - Routers embedded-AI (temporal logic in Syslog processing, policy-driven signal processing)
 - AI-driven Selection of Content Servers based on Current Server Availability (dynamic availability, heuristics, real-time)
- **Petre: 2010 – ongoing**: Panels, Keynotes, Tutorials on ANI, AGI, ASI
 - Coordinator of IARIA Scientific Programs