

Another View on Professional Development

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Abstract

This lecture, in its first part, presents a course that the speaker keeps delivering for decades now at a number of universities, in the USA and internationally. The course covers 12 different topics and consequently this lecture presents the major messages and related pearls of wisdom that each one of the 12 topics conveys to students.

This lecture, in its second part, introduces 10 different methods that educators could use to induce creativity among students seeking degrees that stress research and development. The presentation combines pre-recorded video/media materials and picturesque on-site explanations of the underlying concepts & issues. The first video introduces the methods. The second video presents related **pearls of wisdom contributed by 20 Nobel Laureates** for a decade-long project of the speaker, hosted by The Montenegrin Academy of Sciences and Arts.



Bio

Prof. Veljko Milutinovic received his PhD from the University of Belgrade in Serbia, spent about a decade on various faculty positions in the USA (mostly at Purdue University and more recently at the University of Indiana in Bloomington), and was a co-designer of the DARPA's pioneering GaAs RISC microprocessor on 200MHz (about a decade before the first commercial effort on that same speed) and was a co-designer also of the related GaAs Systolic Array (with 4096 GaAs microprocessors). Later, for almost three decades, he taught and conducted research at the University of Belgrade in Serbia, for departments of EE, MATH, BA, and PHYS/CHEM. His research is mostly in datamining algorithms and dataflow computing, with the emphasis on mapping of data analytics algorithms onto fast energy efficient architectures. Most of his research was done in cooperation with industry (Intel, Fairchild, Honeywell, Maxeler, HP, IBM, NCR, RCA, etc...). For 10 of his books, forewords were written by 10 different Nobel Laureates with whom he cooperated on his past industry sponsored projects. He published 40 books (mostly in the USA), he has over 100 papers in SCI journals (mostly in IEEE and ACM journals), and he presented invited talks at over 400 destinations worldwide. He is a Life Fellow of the IEEE since 2003 and a Member of The Academy of Europe since 2011. He is a member of the Serbian National Academy of Engineering and a Foreign Member of the Montenegro National Academy of Sciences and Arts.

Host

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