

Prof. Dr. Octavian Cira - Short CV

➤ **Short presentation:** Octavian Cira is Professor in Mathematics and Informatics, specialist in Numerical Analysis, at the Aurel Vlaicu Univ. of Arad (UAV) and he also works as researcher in Prof. Duma's Group (<http://3om-group-optomechatronics.ro/>). After graduating Informatics from the Natural Science Faculty of the West Univ. of Timisoara (UVT) (1974-1978), he worked 11 years in informatics for industry, at S.C. ARIS S.A. Arad, with results in research. Since 1990 Prof. Cira works for UAV; he received his Ph.D. in Mathematics from UVT, in 1998. Since 1998 he has promoted the mathematical software Mathcad in Romania by publishing several user manuals. He was founding Dean of the School of Exact Sciences (2003-2008), having during the years several managing positions at UAV: prodean of the Faculty of Engineering and Economic Sciences (1997-1998), prorector at UAV (1998-2000), head of department (2002-2003), dean (2003-2008), member in UAV senate (1990-2008). Prof. Cira is author of more than 90 scientific papers, 61 in refereed journals or proceedings. He was researcher in three projects, co-author of works from various related fields, and also author of five digital art exhibitions, as well as member of the Artists Union of Romania since 2014.

➤ **Main research interests:** Numerical calculation, Programming, Mathematical simulation and modeling, Digital art.

➤ **Significant achievements:** On a national level, Prof. Cira's monographs regarding numerical analysis, i.e., *Numerical Methods for Nonlinear Equations* (2008) and *The Simultaneous Inclusion Methods* (2012) are well-known. He is also author of the monograph *Numerical Solving of the Algebraic Equations* published by the Romanian Academy in 2005. He published two volumes of *number theory* in collaboration with Prof. Dr. Florentin Smarandache (University of New Mexico), in 2014 and 2016.

➤ **Research Projects – Researcher:** (i) PARTNERSHIP Grant 1682/2011, ANCS, 2012-2016; <http://3om-group-optomechatronics.ro/> (950k€); (ii) *Intelligent environments for scientific software* (1996) UVT; (iii) *Distributed models for solving complex problems*, INFOSOC (2001) UVT.

➤ **Papers in journals in ISI Web of Science – Selection:**

Cira O. and Duma V.-F.*, Optomechatronic choppers with rotating elements: analysis and design, *Springer Proceedings in Mathematics and Statics*, Vol. **93**, 457-464 (**2014**); Duma V.-F.*, Schitea A., Tuf M., **Cira O.**, Hutiu Gh., Demian D., Mnerie C., Kaposta I., Optomechatronics applications of the theory of mechanisms with active student involvement in research, *Mechanisms and Machine Science (Book Series)*, vol. 19, 111-119, Springer (2014); Duma V.-F.*, Demian D., **Cira O.**, Optical choppers with high speed rotating elements, *Proc. SPIE*, Vol. 9131, 9131OE 2014; (<https://scholar.google.com/citations?user=Ec7XnXAAAAAJ&hl=ro>).

➤ **H-index 5;** <http://www.researcherid.com/rid/J-2932-2012>; [Scopus Authorid 24450100200](https://orcid.org/0000-0001-9200-2445)