

Dr. Mario Ludovico
Architect – Town & Country Planner

CURRICULUM VITÆ IN A SHORT RESUMÈ

Born in Rome – Italy, on the 12th of August, 1936
Resides in Poland since 2003.

Email contacts:

mario.ludovico@tin.it - mario.ludovico@consultant.com - world-planners@lycos.com

After the diploma from the State Scientific High-school of Bari, he attended the Physics-Mathematics Biennium at the Faculty of Engineering at the State University of Bari.

From 1956 to 1958, eighteen-month military service in Italian Air Force.

From 1958 to 1959, he attended the Faculty of Architecture at the University of Florence.

From 1959 he moved to the Faculty of Architecture at University “La Sapienza” of Rome, where, in 1970, he got the “Diploma di Dottore in Architettura” with a thesis - carried out by means of an original mathematical approach - on urban analyses and projections concerning growth and development of the City of Rome.

During those years, he was also involved in cosmological studies and research.¹

In 1970 the National Council for Scientific Research (CNR) awarded him a scholarship for researches in mathematics applied to urban and regional analyses. In the same year, and until June 1972, he was an Associate Lecturer in Urban Studies at the Faculty of Architecture of Rome.

As an architect, he has taken part in the preparation of preliminary and final designs of residential complexes and/or individual buildings and monuments in Rome and in other Italian cities, as well as in Middle East and Africa.

As a town and regional planner, either individually or as a member of professional teams, he has participated in the preparation of several urban and regional development plans in Italy and abroad, namely, in Australia, Ethiopia, Guyana, Indonesia, Libya, Morocco, Nigeria, Poland, Senegal, Tanzania, Zimbabwe.

In 1988, the Italian Government awarded him the “1988 Prize of Culture”, for his book “*L’evoluzione sintropica dei sistemi urbani*” (Syntropy and Evolution of Urban Systems), published in Rome by Bulzoni Editore in 1988 (1st Edition) and in 1991 (2nd Edition). In about 370 pages, the book presents an original theory on the evolution of complex systems (such as, in particular, cities, regions, or economic systems) through a relatively simple probabilistic approach. The logic-mathematical paradigm proper to this theory may be applied to any self-organized system. [Click on *A Theory on Complex Systems* in the front page, which is an abridged 2013 English version of the Italian text mentioned above. A relevant

¹ From 1963 to 1966, he took also an active part in the researches carried out at the *Centre Européen pour le Recherches sur la Gravitation* (CERG), established in Rome under the High Patronage of the President of the Republic. As to publications concerning this kind of activity, click in the front page on the listed sections of *VACUUM, VORTICES & GRAVITATION*, or on *Vortices & Gravitation Summary*, along with *The Light’s Speed in the Physical Space*. The interested reader can there found the entire texts of the relevant book as well as of the sector study papers delivered at international conferences.

appendix in English is also readable [click on *SYNTROPY – Definition & Use* in the same front page].

In 1991, still with Bulzoni Editore, he published his book “*Note sulla dinamica di popolazione e risorse*” (Dynamics of Population and Resources), in which a model of ecological system is presented, with the purpose of describing the large variety of possible evolution processes for different biological species according to various and/or variable environmental conditions. [See *Population & Resources Dynamics* herewith, where a few-page summary of this model can be found].

As for the architectural designs, whose representation cannot find adequate space in this web site, an essential mention of them is made here below, followed by a list of various publications.

Major Architectural Works

- Residential complexes in Rome
- Hotel delle Nazioni in Rome
- Hotel Villa Dina in Catania
- UNDP residential complex in Dar-es-Salam (Tanzania)
- State Parliament Complex in Lagos (Nigeria)
- Design for a new Business District in Tripoli (Libya)
- Design for a new City Centre in Addis Ababa (Ethiopia)
- Design for the Monument to the Italian Aviator.

List of Publications

Note : *Acronym CSDPT stands for “Centre for Regional Studies and Planning” at the Faculty of Architecture, University “La Sapienza”, Rome (Italy);*
Acronym AIRO stands for “Italian Association for Operational Research”;
Acronym AAMPPO stands for “Addis Ababa Master Plan Projects Office”;
Ministry of Housing and Human Settlements, Addis Ababa, Ethiopia
Acronym KIMPRASWIL stands for the Indonesian Ministry of Infrastructure and Settlements
Acronym BAPPEDA stands for “Governmental Planning Board” (at Indonesian Province Governmental levels)

() University Publications*

*(**) Published by Specialized Magazines*

*(***) Published by Essay-collection Books*

(cp) Conference Papers

(#) Books

® Studies Issued Upon Governmental Requests

”The Definition for Region”, CSDPT, Rome, 1968 (*)

”Urban Studies and Interdisciplinary Aspects”, in Journal *DIBATTITO URBANISTICO*, No. 26, Milan, 1969.(**)

”Spatial Interdependencies”, CSDPT, Rome 1970 (*)

"Community Land Use Game: A Simulation Model", CSDPT, Rome, 1971 (*) [Reproduction and adaptation of a simulation method created in USA]

"The Concept of Informational Entropy in the Construction of a Model of Interactions in an Inhabited Space", CSDPT, Rome, 1971 (*)

"Role of Models", in the book **ARCHITETTURA E COMPUTER**, Bulzoni, Rome, 1972 (***)

"A Model for Town & Country Planners", in the book **ARCHITETTURA E COMPUTER**, Bulzoni, Rome, 1972 (***)

"A Model of Urban System", paper delivered at the AIRO Conference, Rome, November 6 - 8, 1972. (cp)

"Gravitation and Entropy in Urban Planning Models", paper delivered at AIRO Conference, Taranto, September 27 - 29, 1976 (cp)

"Traffic Flow System and Development Hypotheses for the Urban Area of Tripoli", Sviluppo Technica SpA, Rome, 1984 ®

"MEDIAR Method: Theory and Application" (*A Mathematical Approach to the Problem of Simulating the Dynamics of Urban Systems, as applied to Addis Ababa*), AAMPPO - Addis Ababa, 1985 ®

"A City Centre for Addis Ababa", AAMPPO - Addis Ababa, 1985 ®

"Key Project for the Building & Construction Industries in Addis Ababa", FOSWECO SpA, Rome, 1986, on behalf of AAMPPO ®

"L'evoluzione sintropica dei sistemi urbani" (*Syntropy and Evolution of Urban Systems*), Bulzoni, Rome, 1988 and 1991 (this book was awarded the **1988 Prize of Culture** by the Italian Government) (#).

An abridged English version of the book, titled '***Evolving Systems – Recognition and Description***', has been published in 2013 by EU-Art&Science Publications, Poznań [Click on ***A Theory on Complex Systems*** in the front page to read the book's entire text].

"Note sulla Dinamica di Popolazione e Resorse ", Bulzoni, Rome, 1991 (#).

[See ***Dynamics of Population and Resources*** herewith, where an essential summary of the book text can be found]

"Simulation of Malang Physical Growth", in co-operation with computer programmer **Silvano Pellecchia** (*within the preparation of the Malang Urban Development Project*), C.Lotti & Ass., on behalf of BAPPEDA Malang, 1995 ®

"A Study on Privatisation", 2 Volumes, C. Lotti & Ass., Bogor-Palembang, 1996-97, on behalf of the Indonesian Ministry of Home Affair (MOHA) ®

"Se sovrano è il popolo" (*If the People are the Sovereign*), in collaboration with **Guido Branca** (*an essay on deceptions from erroneous implementations of democracy, with the proposal for a viable alternative implementation of democracy through an appropriate random selection of the people's representatives*), Bulzoni Editore, Rome, 1997 (#)

"Suggestions for Future Land Acquisition Policies", BCEOM Consultants at the UMU-BAPPEDA, Surabaya, 1997 ®

"Issues of Population Projections and Production Dynamics", BCEOM Consultants at the UMU-BAPPEDA, Surabaya, 1997 ®

"Towards a Policy for the Regional Development", BCEOM Consultants at the UMU-BAPPEDA, Surabaya, 1998 ®

"Suggestions for Anti-crisis Initiatives" (*The Socioeconomic Promotion Role of Urban Primary Activities and Services during the general economic crisis of years 1997-1998 in South-East Asian Countries*), BCEOM Consultants at the UMU-BAPPEDA, Surabaya 1998 ®

"A Probabilistic Econometric Model for East Java Province" (*Forecast and Planning Instruments for the Economy in a Time of Crisis*), BCEOM Consultants at the UMU-BAPPEDA, Surabaya 1998 ®

"Collection of Memos and Papers" (amongst which *Padat Karya: A Strategic Labor Intensive Program* along with *Measures to Check Further Unemployment*), BCEOM Consultants at the UMU-BAPPEDA, Surabaya 1999 ®

"Collection of Papers on Financial and Monetary Issues" (*Analyses and Projections on Regional [PEMDA] Revenues-Expenditures in the emerging monetary crisis, with ad hoc Projection Models on Rupiah/US Dollar and Rupiah/Yen Exchange Rates*), BCEOM Consultants at the UMU-BAPPEDA, Surabaya 1998-1999, ®

"The Problem of Coastal Zone", in collaboration with Eng. **Sugyartini** (*Analyses and Proposals for an Appropriate Sustainable Use and Development of Coastal Resources*), BCEOM Consultants at the UMU-BAPPEDA, Surabaya 1999 ®

"Urban Development and Regional Socioeconomic Prospects", BCEOM Consultants, on behalf of KIMPRASWIL for the preparation of the Second National Urban Development Strategy (*NUDS-II Interim Report*), Jakarta, July 2000 ®

"Features of Secondary Urban Roads and Assessing the Impact of Transportation Projects on Urban Systems", BCEOM Consultants at SURIP-1b, Jakarta, October-November 2000 ®

"Benefit Monitoring and Evaluation for Sumatra Urban Development Sector Project (SUDSP) " (*ad hoc methodology prepared for evaluating the impact of sector projects implemented in about 70 cities and towns of Sumatra*), GKW Consultants on behalf of KIMPRASWIL, Jakarta 2002 ®

"Project Impact Monitoring and Evaluation", (*original methodology, with relevant manual, guidelines, and the report on an application to Medan Urban Development Project*,

prepared upon direct request from the Asian Development Bank), GKW Consultants on behalf of KIMPRASWIL, Jakarta 2003 ®

"A Study on Privatisation Issues", Kota Palembang, 2004 (*a study - carried out under a European Union Grant - on the conditions and potentials for partial or full privatisation of public services in the Indonesian city of Palembang*) ®

"Country Strategic Paper" for Guyana Development Program, (project carried out under a European Union grant - *The 10th EDF*), Georgetown, 2006.

Under application tests:

"A Model for Traffic Assignment on a Multimode Transport Network" , in collaboration with **Gianfranco Antonini** and computer programmer **Sergio Sirgi** (*The Theoretical Problem of Multi-mode Transportation Demand and Actual Flow Distribution on a Regional Network*), registered in Rome in Year 2002. [Clik on *[A Transportation Model](#)* in the front page, to read about the theoretical structure of the model].

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