

NAZLI CHOUCRI
DEPARTMENT OF POLITICAL SCIENCE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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EDUCATION

American University, Cairo B.A., Social Sciences
Stanford University, California M.A., Political Science
Stanford University, California Ph.D., Political Science

ACADEMIC APPOINTMENTS

<i>Current Academic</i>	Professor of Political Science, MIT Faculty Affiliate, Institute for Data, Systems, and Society	1978- 2015-
<i>Previous Academic</i>	Associate Professor, MIT Assistant Professor, MIT Senior Faculty, Center for International Studies, MIT Associate Director, Technology and Development Program Head, The Middle East Program, MIT	1972-1978 1969-1972 1975- 1976-2012 1985-2009
<i>Other</i>	Assistant Professor, Queen's University, Canada Director, Energy and Development Research Program, MIT Faculty Associate, Center for Middle Eastern Studies, Harvard University Founding Director, GSSD Global Knowledge e-Networking	1967-1969 1980-1982 1983-1993 1998-

AREAS OF RESEARCH INTERESTS

- International Politics – Dynamics of Conflict and Cooperation
- Quantitative Analysis – Parameter Estimation, Simulation, and Modeling
- Global Accord, Environment, and Sustainability
- CyberPolitics and Cyberspace

NEW RESEARCH DIRECTIONS

- Principal Investigator, Project on *Explorations in Cyber International Relations*, a collaboration of MIT and Harvard University, supported by the Minerva Program, US Department of Defense, 2009 – 2015
- Co-Principal Investigator, *A Multilayered Approach to Assessing the Vulnerability of Critical Infrastructure Against Cyber Attacks*, MIT-MIST Program, 2014-2016.

PROFESSIONAL ASSOCIATIONS (select)

- Council on Foreign Relations
- American Political Science Association
- American Association for the Advancement of Science
- International Political Science Association
- International Studies Association

PATENT

Networked DataBase System for Geographically Dispersed Global Sustainability (as amended), Nazli Choucri and Juliana Kousoum. Patent Application, Allowance, and Granted May 12, 1998: USSN 08/637,077 MIT Case No. 7217. (First patent in the history of MIT from the School of Humanities, Arts, and Social Science)

- Design and management of collaborative research on knowledge provision and sharing across disciplines, languages and cultures (including Arabic, Chinese, French)
- Implementation in *Global System for Sustainable Development*, Web-Based System for Multilingual Knowledge Management and Development (Arabic, Chinese, English, Spanish)

EDITORSHIP (select)

- Editorial Board, *American Political Science Review* 2012-
- Editorial Advisory Committee *International Political Science Review* 2000-
- Advisory Board, *Global Environmental Politics* 2002-
- Editor, *International Political Science Review* 1994-2000
- Founding Editor, *MIT Press Series on Global Environmental Accords* 1993-
- Board of Editors, *Business & the Contemporary World* 1992-1994

SYNERGISTIC ACTIVITIES (select)

- Graduate Courses on CyberPolitics in International Relations
- Development of databases for analysis of international relations by country since 1945
- Interdisciplinary graduate courses Technology and Policy — co-teaching across four MIT departments

**PROFESSIONAL&
SCIENTIFIC ACTIVITIES**

- CHESS Initiative of Council of Scientific Societies Presidents (CSSP) 2014-
- Scientific Advisory Committee to World Social Science Report (WSSR) 2013-
- International Institute for Strategic Studies (IISS) 2012-
- Santa Fe Institute, Science Board 1995-
- European Academy of Sciences 2003-
- Dr. Jean Mayer Global Citizenship Award, Tufts University Education
for Public Inquiry and International Citizenship 2005
- Chair, Scientific Advisory Committee (SAC) of UNESCO Program
Management of Social Transformation (MOST) 2006-2012
- Principal Investigator, Explorations in Cyber International Relations,
Department of Defense, Minerva Program 2000-2006
2009-2014
- Panel Member, National Academy of Sciences Committee on Terrorism 2001-2002
- Panel Member, DARPA-National Academy of Sciences Committee on
Understanding Terrorism in order to Deter Terrorism 2001-2002
- Member, Scientific Advisory Committee, SCOPE-ICSU 1998-
- Member, Science Board, Santa Fe Institute 1995-1997
- Special Advisor to the Administrator of the United Nations Development 1994-1996
- Member, Advisory Board, Global Stewardship Initiative, Pew Charitable Trust 1993-1995
- Advisor to the Secretary General of the United Nations Conference
on Environment and Development 1990-1992
- Member, AAAS Committee on Population, Resources, and the Environment 1990-1991
- Convener and Sessions Organizer, International Political Science Association 1984-1985
- Planning Committee, International Scientific Forum on Energy 1983-1988
- Advisory Committee, Office of Technology Assessment, U.S. Congress 1982-1983
- Board of Directors, Pathfinder Fund 1981-1983
- Council Member, American Political Science Association 1981-1983
- Panel for 1979 U.S. Conference of Science and Technology for
Development, National Research Council 1977-1978
- International Advisory Committee, World Population Society 1976-1977
- International Social Science Documentation Committee 1976-1978
- Contribution to US Academy of Engineering study on Information Systems and
Environment 1977; published in 2001 1973-1974
- National Science Foundation Advisory Committee for Developing Guidelines of
Research on National Resource Problems 1973-1974
- Co-Chair, National Academy of Science, Middle East Workshop 1973-1974

INTERNATIONAL EXPERIENCE

Research, advising, consulting in: United Arab Emirates, Algeria, Canada, China, Colombia, Egypt, France, Germany, Greece, Honduras, Kuwait, Lebanon, Mexico, North Yemen, Pakistan, Qatar, Sudan, Switzerland, Syria, Tunisia, Turkey.

LANGUAGES

Fluent: English, French, Arabic. *Limited:* Spanish, Italian

PUBLICATIONS

BOOKS

Nazli Choucri, 2012. *CyberPolitics in International Relations*, Cambridge, MA: The MIT Press.

Nazli Choucri, Dinsha Mistree, Farnaz Haghseta, Toufic Mezher, Wallace R. Baker, and Carlos I. Ortiz, eds. 2007. *Mapping Sustainability: Knowledge e-Networking and the Value Chain*. New York: Springer.

Nazli Choucri, ed. 1993. *Global Accord: Environmental Challenges and International Responses*. Cambridge, Mass.: MIT Press.

Nazli Choucri, Robert C. North, and Susumu Yamakage. 1992. *The Challenge of Japan Before World War II and After: A Study of National Growth and Expansion*. London: Routledge.

Nazli Choucri, ed. 1984. *Multidisciplinary Perspectives on Population and Conflict*. Syracuse, N.Y.: Syracuse University Press.

Nazli Choucri. 1982. *Energy and Development in Latin America: Perspectives for Public Policy*. Lexington, Mass.: D.C. Heath/Lexington Books.

Nazli Choucri with David Scott Ross. 1981. *International Energy Futures: Petroleum Prices, Power, and Payments*. Cambridge, Mass.: MIT Press.

Nazli Choucri and Thomas Robinson, eds. 1978. *Forecasting in International Relations: Theory, Methods, Problems, Prospects*. San Francisco: W. H. Freeman

Nazli Choucri with Vincent Ferraro. 1976. *The International Politics of Energy Interdependence*. Lexington, Mass.: D.C. Heath.

Nazli Choucri and Robert C. North. 1975. *Nations in Conflict: National Growth and International Violence*. San Francisco: W.H. Freeman & Co.

Nazli Choucri. 1974. *Population Dynamics and International Violence: Propositions, Insights and Evidence*.
Lexington, Mass.: D.C. Heath/Lexington Books.

Book Ms. **Prepared for Publication**

Nazli Choucri and David D. Clark. *The Co-Evolution Dilemma: International Relations in the Cyber Age*,

Nazli Choucri, David D. Clark and Stuart Madnick, eds. *Explorations in Cyber International
Relations: Theory, Data, Policy*, in ms form

ARTICLES

Including select monographs: - Organized in FOUR research areas and SUB-areas

I. INTERNATIONAL POLITICS – TRANSFORMATION and CHANGE

1.1 Theory and Analysis

Co-author with Anne-Katrin Wickboldt. "Profiles of States as Fuzzy Sets: Methodological Refinement of Lateral Pressure Theory," *International Interactions* 32, No 2: 153-181. 2006.

"Economic and Political Factors in International Conflict and Integration." *International Studies Quarterly* 27. 1993.

Co-author with Robert C. North. "Roots of War: The Master Variables," in Raimo Väyrynen, in collaboration with Dieter Senghaas and Christian Schmidt, eds., *The Quest for Peace: Transcending Collective Violence and War Among Societies, Cultures and States*, London: International Social Science Council, Sage Publications, 204-16. 1993.

"Environment and Conflict: New Principles for Environmental Conduct." *Disarmament* XV (1): 67-78. 1992.

"Analytical and Behavioral Perspectives: Causes of War and Strategies for Peace," in W. Scott Thompson et al., eds., *Approaches to Peace: An Intellectual Map*, Washington, D.C.: United States Institute of Peace Press, 271-98. 1991.

"Resource Constraints as Causes of Conflict." *Ecodecision* (September), 52-55.1991.

Co-author with Robert C. North. "Lateral Pressure in International Relations: Concept and Theory," in Manus I. Midlarsky, ed., *Handbook of War Studies*, Winchester, Mass.: Unwin Hyman, Inc., 289-326. 1989.

- "The Reality of Theory: Reflections and Reassessment," in Joseph Kruzel and James Rosenau, eds., *Journeys Through World Politics: Autobiographic Reflections of Distinguished Scholars*, Lexington, Mass.: Lexington Books, 137-51. 1989.
- "Demographics and Conflict." *Bulletin of the Atomic Scientists* 42 (4). 1986.
- "Population, Resources, Technology, and Environment: Trends and Implications," in John Trent and Paul Lamy, eds., *Global Crises and the Social Sciences: North American Perspectives*, Ottawa: University of Ottawa Press/UNESCO. 1984.
- "International Political Economy: A Theoretical Perspective," in Ole R. Holsti, Randolph M. Siverson, and Alexander L. George, eds., *Change in the International System*, Boulder, Colorado: Westview Press. 1980.
- "International Non-Alignment: Quantitative Perspectives on the Afro-Asian Variant," in Michael Haas, ed., *International Systems: A Behavioral Approach*, San Francisco: Chandler Publishing Co., 123-50. 1974.
- "International Conflict Processes: A System View," in *Beitrage zu Einer Ethik des Friedens*, Vienna: Herder, 74-94. 1973.
- Co-author with Robert C. North. "Causes of World War I: A Quantitative Analysis of Longer-Range Dynamics," in Klaus Jurgen Gentzel, Gisela Kress, and Volker Rittberger, eds., *Grossmachtrivalität und Weltkrieg: Sozialwissenschaftliche Studien zum Ausbruch des Ersten Weltkrieges und Historikerkommentare*, Gutersloh: Bertelsmann Universitätsverlag, 122-56. 1972.
- Co-author with Robert C. North. "Dynamics of International Conflict: Some Policy Implications of Population, Resources, and Technology," in Raymond Tanter and Richard Ullman, eds., *Theory and Policy in International Relations*, Princeton: Princeton University Press, 80-122. 1972.
- Co-author with Dennis Meadows. *International Implications of Technological Development and Population Growth: A Simulation Model of International Conflict*. Cambridge, Mass.: Center for International Studies, MIT, 1971.
- Co-author with Robert C. North. "Determinants of International Violence." *Peace Research Society (International) Papers* 12: 33-63. 1969.
- "The Nonalignment of Afro-Asian States." *Canadian Journal of Political Science* 2 (1): 1-17. 1969.
- "The Perceptual Base of Nonalignment." *The Journal of Conflict Resolution* 13 (1): 57-73. 1969.

1.2 Population Dynamics and International Migration

Co-author with Dinsha Mistree. "Globalization, Migration and New Challenges to Governance." *Current History*, 108: 717, 2009, 173-179.

"Demography, Migration, and Security in the Middle East," in Laura Guazzone, ed., *The Middle East in Global Change: The Politics and Economics of Interdependence versus Fragmentation*, New York: St. Martin's Press, Inc., 95-118. 1997.

Co-author with Robert C. North. "Population and (In)Security: National Perspectives and Global Imperatives," in David B. Dewitt, David Haglund, and John Kirton, eds., *Emerging Trends in International Security*, New York: Oxford University Press, 229-56. 1993.

"Business and Reconstruction in the Middle East." *Business & the Contemporary World* 3 (3): 81-88. 1991.

"Resource Scarcity and National Security in the Middle East," in Eric H. Arnett, ed., *New Perspectives for a Changing World Order*, Washington, D.C.: American Association for the Advancement of Science, pp. 100-107. 1991.

"Population and the Global Environment." In J.W. Tesler, D.O. Wood, and N.A. Ferrari (Eds.), *Energy and the Environment in the Twenty First Century*. Cambridge, MA: The MIT Press. 1991.

Co-author with Janet Welsh Brown, and Peter M. Haas. "Dimensions of National Security: the Case of Egypt," in Janet Welsh Brown, ed., *In the U.S. Interest: Resources, Growth, and Security in the Developing World*, Boulder, Colorado: Westview Press, 89-119. 1990.

Impacts and Prospects of Return Migration in the Middle East. Report for the International Labor Office, April 1990. Part 1. Part 2. "Migration in the Middle East: Old Economics or New Politics?" *Journal of Arab Affairs* 7 (1): 1-18. 1988.

"Asians in the Arab World." *Middle Eastern Studies* (April). 1986.

"The Hidden Economy: A New View of Remittances in the Arab World." *World Development* 14 (6): 977-85. 1986.

"Migration to the Middle East," *Middle East Review*. Vol. XIX, No. 2 Winter 1986.

Assessments of Macroeconomic Impacts of Labor Migration and Remittances in Sudan. Cambridge, Mass.: MIT Technology and Development Program Report No. 84-4, July 1984.

Population Movements in the Middle East: An Analysis of Policy Issues. Cambridge, Mass.: MIT Technology and Development Program Report No. 84-5, 1984.

- Co-author with Peter Brecke. "Migration in the Middle East: Transformation and Change" *Middle East Review*; Vol. XVI, No. 2; Winter 1983/1984.
- Asians in the Arab World: Labor Migration and Public Policy. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-13, December 1983.
- Co-author with Supriya Lahiri. Macro-Economic Impacts of Remittances in Egypt: An Exploratory Analysis. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-10, May 1983.
- Collaboration with Peter Brecke. *Migration in the Middle East: Transformations, Policies, and Processes*, 2 vols. Cambridge, Mass.: MIT Technology Adaptation Program Reports Nos. 83-8, 83-9, 1983. Preface – Chapter 3, Chapter 4 – Chapter 7, Chapter 8 – Chapter 12.
- Population and Conflict: New Dimensions of Population Dynamics*. New York: United Nations Fund for Population Activities. Robert C. North and Nazli Choucri. 1983.
- "The Arab World in the 1980s: Macro-Politics and Economic Change." *Journal of Arab Affairs* 1 (1): 167-87. 1982.
- "The Pervasiveness of Politics: Political Definitions of Population Issues," in *Ethical Issues of Population Aid*, Irvington Publishers, 239-85. 1981.
- "Demographic Changes in the Middle East: New Factors in Regional Politics," in *The Political Economy of the Middle East - Changes Since 1973*, Washington, D.C.: Library of Congress, Congressional Research Service. 1979.
- "Labor Transfers in the Arab World: Growing Interdependence in the Construction Sector" *Organization of Arab Petroleum Exporting Countries*; Vol. 5, No. 1. 1979.
- Co-author with Richard S. Eckaus, and Amr Mohie-Eldine. *Migration and Employment in the Construction Sector: Critical Factors in Egyptian Development*. Cambridge, Mass.: MIT Technology Adaptation Program, October 1978.
- Migration Processes Among Developing Countries: The Middle East*. Cambridge, Mass.: MIT Migration and Development Study Group, C/78-5, May 1978.
- "The Pervasiveness of Politics." *Populi* 5 (33): 30-44. 1978.
- "The New Migration in the Middle East: A Problem for Whom?" *International Migration Review* 11 (4): 421-43. 1977.
- "Political Implications of Population Dynamics: A Critical Assessment." *The Population Debate: Papers of the World Population Conference, Bucharest, 1974*, vol. II, New York: United Nations. 1976.
- Population Dynamics and Local Conflict: A Cross National Study of Population and War: A Summary*. Cambridge, Mass.: MIT Center for International Studies, C/74-9, 1974.

Co-author with Robert C. North. "Population and the International System: Some Implications for the United States Policy and Planning" Commission on Population Growth and the American Future; Research Reports, Vol. 4. 1974.

Co-author with W. Parker Mauldin, Frank W. Notestein, and Michael Teitelbaum. A Report on Bucharest: The World Population Conference and the Population Tribune, August 1974. A publication of the Population Council, Studies in Family Planning, December 1974.

"Population Dynamics and Social Inquiry: Some Methodological Imperatives," in Richard L. Clinton, ed., *Population and Politics*, Lexington, Mass.: Lexington Books. 1973.

Co-author with Robert C. North. "Population and the Future International System." *Journal of International Affairs* 25 (2): 224-37. 1971.

1.3 Energy and Resources

Co-author with Daniel Goldsmith and Toufic Mezher. "Modeling Renewable Energy Readiness: The UAE Context," *Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE)*, 2011 20th IEEE International Workshops, June 2011: 27-9.

Co-author with Toufic Mezher and Daniel Goldsmith. "Renewable Energy in Abu Dhabi: Opportunities and Challenges," *Journal of Energy Engineering* 137(4): 169-177. 2011.

"Environmentalism in Comparative Politics," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. In press.

"Environmentalism in International Relations," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. In press.

Environmental Flashpoints in the Middle East and North Africa. Report for the Environmental Flashpoints Workshop, November 1997.

"World Energy: Implications for Japan" Toray Corporate Business Research Inc. Vol. 2; No. 2; Spring. 1990.

Co-author with M. Zaki Shafei "Energy Policy in Egypt" Extrait de l'Egypte Contemporaine LXXVeme Annee; No. 395, January. 1984.

"Energy for Survival and Development" Pontificiae Academiae Scientiarum Scripta Varia. Edited by Carlos Chagas and Umberto Colombo. June 11-14. 19

- "Energy and Development in Latin America." *Latin America and Caribbean Contemporary Record*, vol. II. 1983.
- "Energy and Development: Understanding the Risks" The MIT Report September, Vol. XI; No. 9. 1983.
- "Energy and Transportation in Latin America: The Socio-economic Basis," in *The Impact of Energy Costs on Transportation in Latin America*, Inter-American Development Bank, November 1982.
- "OPEC: Calming a Nervous World Oil Market." *Technology Review* 83 (1): 35-36. 1980.
- "Power and Politics in World Oil." *Technology Review* 85 (7): 24-36. 1980.
- "Analytical Specifications of the World Oil Market: A Review and Comparison of 12 Models." *Journal of Conflict Resolution* 23 (2): 346-72. 1979.
- "...and OPEC is justified," *The Christian Science Monitor*, November 30, 1979, pg. 23.
- Co-author with Vincent Ferraro. "International Exchanges of Alternative Energy Sources: Technology, Price, and Management," in Dennis Clark Pirages, ed., *The Sustainable Society*, New York: Praeger Publishers, pp. 74-102. 1977.
- Energy Interdependence. Volume II of *Analyzing Global Interdependence*, by Hayward R. Alker, Jr., Lincoln P. Bloomfield, Nazli Choucri. Cambridge, Mass.: MIT Center for International Studies C/74-28, 1974.
- With the research assistance of James P. Bennett. "Population, Resources, Technology: Political Implications of the Environmental Crisis," in David A. Kay and Eugene B. Skolnikoff, eds., *World Eco-Crisis: International Organizations in Response*, Madison: University of Wisconsin Press, 9-46. 1972.

1.4 Technology and Politics

- "Megacities and Global Accord." Fred Moavenzadeh, Keisuke Hanaki and Peter Baccini, Dordrecht (Eds.), In *Future Cities: Dynamics and Sustainability*. (pp. 215-225). The Netherlands: Kluwer Academic Publishers. 2002.
- "Strategic Partnerships with Multilingual Functionality for Globalisation and Localisation," Prepared for European Commission Directorate-General Information Society Workshop on "*Sustainability and E-nvironment*," Publication of IST99 Conference in Helsinki, November 1999, Finland. 1999.
- "Knowledge Networking for Technology 'Leapfrogging'," *UNDP Cooperation South*, Number Two, 1998, pp. 40-52. 1998.

"Globalization of Eco-Efficiency: GSSD on the WWW." *UNEP Industry and Environment*, October-December 1995, pp. 45-49. 1995.

"Globalization of MIT: GSSD on the WWW" MIT Faculty Newsletter. October, Vol. VIII, No. 1. 1995.

"Introduction." *Business & the Contemporary World*, Special Issue: Global Environmental Accords: Implications for Technology, Industry and International Relations. vol. VI (2): 6-8. 1994.

"The Politics of Global Environmental Change: A Conceptual Framework," in United Nations, Advanced Technology Assessment System, *Environmentally Sound Technology for Sustainable Development*, New York: United Nations Publications, pp. 230-34. 1992.

"A Partnership with Nature: Construction Consortium for the Global Environment." *Construction Business Review* 1 (2): 37-41. 1991.

"The Global Environment and Multinational Corporations." *Technology Review* 94 (3): 52-9. 1991.

"The Politicization of Technology Choices." *Business & the Contemporary World*, vol. II (1). 1989.

Co-author with Richard S. Eckaus. "Interactions of Economic and Political Change: The Egyptian Case." *World Development* 7: 783-97. 1979.

II. QUANTITATIVE ANALYSIS – PARAMETER ESTIMATION, SIMULATION and MODELING

Co-author with Ed Anderson, Daniel Goldsmith, Stuart E. Madnick, Michael Siegel, and Dan Sturtevant. *System Dynamics Modeling for Pro-Active Intelligence*, A publication of the Air Force Research Laboratory, January 2010

Co-Author with Jean Francois Mascari "Higher Education, Research and Innovation – Global Social Sustainable Development. (GSSD) Perspective, in *Forum on Higher Education Research and Knowledge* (Paris: UNESCO), 2010.

"Legacies of the 20th Century and Knowledge Imperatives for the 21st Century", in *Forum on Higher Education Research and Knowledge* (Paris: UNESCO), 2009

Co-author with Farnaz Haghseta. "Organizational Innovation: Global Workflow and Institutional e-Networking," In Dinsha Mistree, Farnaz Haghseta, Toufic Mezher, Wallace R. Baker and Carlos I. Ortiz, eds. *Mapping Sustainability: Knowledge e-Networking and the Value Chain*. Dordrecht, The Netherlands: Springer. 2007.

"The Politics of Knowledge Management," A publication for The UNESCO Forum on Higher Education, Research and Knowledge, 2007.

May 2015

Co-author with, Christopher Heye, and Michael Lynch.. "Analyzing Oil Production in Developing Countries: A Case Study of Egypt." *The Energy Journal* 11 (3). 1990.

Co-author with Christopher Heye. "Simulation Models." *Energy* 15 (3/4): 363-78. 1990.

"Domestic Energy Pricing: Trends and Implications for the Arab World." *The Journal of Energy and Development* 11 (1). 1986.

Co-author with Supriya Lahiri. "Short-Run Energy-Economy Interactions in Egypt." *World Development* 12 (8): 789-820. 1984.

Co-author with M. Zaki Shafei, and with the collaboration of the Egyptian General Petroleum Corporation, the Ministry of Planning, and the Ministry of Petroleum. The Energy Policy Project: Petroleum and Natural Gas in Egypt. Cambridge, Mass.: MIT Technology Adaptation Program Report No. 83-11, June 1983.

"International Changes in the World Oil Market: A Simulation Perspective" *International Political Science Review* Sage Publications Inc. Beverly Hills, CA. Vol. 3, No. 4; pp. 378-403. 1982.

"The International Petroleum Exchange Model: Reference Results and Validation" *The International Petroleum Exchange Model. Futures*; June. 1980.

Chapters in co-edited volume, *Forecasting in International Relations: Theory, Methods, Problems, Prospects*, San Francisco: W. H. Freeman. 1978. Author of following chapters:

Chapter 1: "Key Issues in International Relations Forecasting"

Chapter 12: "Applications of Econometric Analysis to Forecasting in International Relations"

Chapter 13: "System Dynamics Forecasting in International Relations"

Chapter 21: "Alternative Futures: An Exercise in Forecasting" (with Marie Bousfield)

"An Assessment of Documentation Standards for Ten Computer Models of Political Problems," in *New Trends in Mathematical Modelling*, Wroclaw, Poland: Ossolineum, 1978, pp. 331-43. 1978.

"From Correlation Analysis to Computer Forecasting: The Evolution of a Research Programme in International Relations," in James N. Rosenau, ed., *In Search of Global Patterns*, New York: The Free Press, 81-90. 1976.

Co-author with David Scott Ross, and Dennis Meadows. "Toward a Forecasting Model of Energy Politics." *Journal of Peace Science* 1 (2): 97-111. 1976."Forecasting Sources of Foreign Expansion: An Inquiry into Alternative Futures," in Mario Bunge, Johan Galtung, and Mircea Malitza, eds., *Mathematical Approaches to International Relations*, Vol. 2, Bucharest: Romanian Academy of Social and Political Sciences. 1975.

"Forecasting in International Relations: Problems and Prospects." *International Interactions* 1: 63-86. 1974.

"Applications of Economic Analysis to Forecasting in International Relations." *Peace Science Society (International) Papers* 21: 15-38. 1973.

Co-author with Michael Laird, and Dennis Meadows. *Resource Scarcity and Foreign Policy: A Simulation Model of International Conflict*. Cambridge, Mass.: MIT Center for International Studies, C/72-9, March 1972. Collaboration with Robert C. North.

"In Search of Peace Systems: Scandinavia and the Netherlands, 1870-1970," in Bruce Russett, ed., *Peace, War, and Numbers*, Berkeley: Sage Publications, 239-74. 1972

Co-author with Robert C. North. "Background Conditions to the Outbreak of the First World War." *Peace Research Society (International) Papers* IX: 33-63. 1969.

III. SUSTAINABILITY, ENVIRONMENT and GLOBAL ACCORD

Co-Author with Dinsha Mistree "Globalization, Migration, and New Challenges to Governance". *Current History*, (Vol. 108, No. 717, pp. 173-179. 2009

"The Political Logic of Sustainability," in Egon Becker and Thomas Jahn, eds., *Sustainability and the Social Sciences*. New York: Zed Books. 1999.

Co-author with Annababette Wils and Matilde Kamiya. "Threats to Sustainability: Simulating Conflict Between Nations," *System Dynamics Review* 12, No. 2-3: 129-162. 1998.

Co-author with Rebecca Berry. "Sustainability and Diversity of Development: Toward a Generic Model." *Proceedings, The 1995 International System Dynamics Conference*, July, Tokyo, Japan. 1995.

"Corporate Strategies toward Sustainability," in Winfried Lang, ed., *Sustainable Development and International Law*, Boston: Graham & Trotman/Martinus Nijhoff, pp. 189-201. 1994.

"Moving Forward: Priorities and Practicalities." *Business & the Contemporary World*, Special Issue: Global Environmental Accords: Implications for Technology, Industry and International Relations VI (2): 134-5. 1994.

"Environmentalism," in J. Krieger, ed., *Oxford Companion to Politics of the World*, New York: Oxford University Press. 1993.

"Introduction: International Political Economy and the Global Environment" *International Political Science Review* Vol. 14, No. 1; pp. 5-6. 1993.

Ed. Chapters in edited volume, *Global Accord: Environmental Challenges and International Responses*, Cambridge, Mass.: MIT Press. 1993. Author of the following chapters:

Chapter 1: "Introduction: Theoretical, Empirical, and Policy Perspectives"

Chapter 3: "Growth, Development, and Environmental Sustainability: Profile and Paradox"
(with Robert C. North)

Chapter 6: "Multinational Corporations and the Global Environment"

Chapter 15: "Global Accord: Imperatives for the Twenty-first Century" (with Robert C. North)

"Political Economy of the Global Environment." *International Political Science Review* 14 (1): 103-16. 1993.

"Environment and Conflict: New Principles for Environmental Conduct." *Disarmament* XV (1): 67-78.
1992.

"Environment, Development, and International Assistance: Crucial Linkages," in Sheryl J. Brown and
Kimber M. Schraub, eds., *Resolving Third World Conflict: Challenges for a New Era*, Washington, D.C.:
United States Institute of Peace Press, pp. 91-117. 1992.

"Le Changement Mondial et ses Implications pour la Recherche Interdisciplinaire," in Eduardo
Portella, ed., *Entre Savoirs: L'interdisciplinarite en acte: en jeux, obstacles, perspectives*, Toulouse:
Editions Eres. 1992.

"Consequences of War in the Middle East" *TBR Intelligence*, Vol. 3, No. 2. 1991.

"Comments on Scientific Forecasts in International Relations" *International Studies Quarterly*.
Vol. 25; No. 1, March; pp. 145-149. 1979.

IV. CYBERPOLITICS and CYBERSPACE

Co Author with Atin BASuchoudhary, "The Evolution of Network Based Cybersecurity Norms: An
Analytical Narrative", *IEEE IRI*, 2014

Co-author with Chintan Vaishnav and David D. Clark. "Cyber International Relations as an Integrated
System." *Environment, Systems and Decision*, 2013.

Co-author with Stuart Madnick and Jeremy Ferwerda. "Institutional Foundations for Cyber Security:
Current Responses and New Challenges." *Information Technology for Development*, October 2013.

Co-author with David D. Clark. "Who Controls Cyberspace?" *Bulletin of Atomic Scientists*, 69 (5): pp. 21-
31, September/October 2013.

"Cyberpolitics in International Relations." *precis*, MIT Center for International Studies. Spring 2013.

Co-author with Michael Sechrist, Chintan Vaishnav, Daniel Goldsmith. "The Dynamics of Undersea
Cables: Emerging Opportunities and Pitfalls." *Proceedings of the 30th International Conference of the
System Dynamics Society*, eds. Elke Husemann and David Lane. St. Gallen, Switzerland. July 22-26,
2012.

- Co-author with Stuart Madnick, Steven Camiña and Wei Lee Woon. "Towards Better Understanding Cybersecurity: or are "Cyberspace" and "Cyber Space" the same?" 2012. *pre-ICIS workshop on Information Security and Privacy (SIGSEC)*. Paper 27.
- "Cyberpolitics in International Relations," in Joel Krieger, ed., *Oxford Companion to International Politics*, Oxford, England: Oxford University Press. 2012.
- "The Convergence of Cyberspace and Sustainability." *e-International Relations*. April 20, 2012. <http://www.e-ir.info/2012/04/20/the-convergence-of-cyberspace-and-sustainability/>.
- Co-author with Daniel Goldsmith. "Lost in Cyberspace: Harnessing the Internet, International Relations and Global Security." *Bulletin of the Atomic Scientists*. 2012. 68 (2): 70-77.
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