

# Inforum Website

Software, data, and other resources  
available on the Inforum website

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[www.Inforum.umd.edu](http://www.Inforum.umd.edu)



# www.Inforum.umd.edu

The screenshot shows a web browser window with the address bar displaying "www.inforum.umd.edu". The page features a large header with the "INFORUM" logo and the text "40 Years: 1967-2007" over a world map background. Below the header is a navigation menu with links for Home, Organization, Research, Products/Services, EconData, Software, and Search.

The main content area is titled "EconData" and includes a sidebar with a "G7" logo and a list of links: Products and Services, U.S. National Models, China National Model, China Regional Model, International Partners, World Conferences (2009, 2010), Outlook Conferences (2009, 2010), and The Craft, Vol. 1-3. Below these are "Related Links" for the University of Maryland Dept. of Economics and the Intl Input-Output Assoc, along with a search box.

The main text area contains an introductory paragraph about Inforum's history and mission, followed by a list of bullet points describing its activities. A photograph of a brick building with cherry blossoms is positioned to the right of the text. At the bottom, there is a "NEWS HEADLINES" section with a search box and a link to a complete news listing.

**EconData**

Inforum, or the Interindustry Forecasting Project at the University of Maryland, was founded 40 years ago by Dr. Clopper Almon, now Professor Emeritus of the University. It is dedicated to improving business planning, government policy analysis, and the general understanding of the economic environment. Inforum accomplishes this mission through:

- Building and using structural economic models of U.S. and other economies. Inforum pioneered the construction of dynamic, interindustry, macroeconomic models which portray the economy in a unique "bottom-up" fashion.
- Working with government and private sector research sponsors to investigate a variety of issues. Economic projections and analysis using Inforum econometric models are distinguished by detail at the industrial and product level.
- Serving as a training crucible for University of Maryland graduate students who receive valuable training in empirical economics. Indeed, Inforum graduate research assistants have completed over 40 Ph.D. dissertations, most of which have contributed directly to the infrastructure of Inforum.
- Maintaining active and productive ties with a world-wide network of research associates, each of which uses Inforum modeling methods and software. The Inforum partners have held annual conferences since 1993.

In 2007, Inforum proudly celebrated its 40th anniversary. Since its founding in 1967 by Dr. Clopper Almon, Inforum has operated at the University of Maryland, serving clients in business and government and providing training for many university students, visiting scholars, and others. Inforum continues to foster cooperation and development of economic knowledge and techniques with partners around the world.

**NEWS HEADLINES**

Selected news stories are listed below. A complete listing of recent news also is [available](#).

# News and Featured Studies

The screenshot shows a web browser window displaying the Inforum website. The browser's address bar shows the URL [www.inforum.umd.edu/organization/news.html](http://www.inforum.umd.edu/organization/news.html). The website header features the Inforum logo with the tagline "40 Years: 1967-2007" and a navigation menu with links for Home, Organization, Research, Products/Services, EconData, Software, and Search.

The main content area is titled "INFORUM NEWS" and lists several articles:

- Impact of the IECA Sustainable Manufacturing & Growth Initiative - July 23, 2010**  
Keybridge Research and Inforum released the results of their analysis of Industrial Energy Consumers of America's (IECA) policy package. The study, titled "Economic Impact of the Industrial Energy Consumers of America's Sustainable Manufacturing & Growth Initiative", used Inforum's [Lift model](#) to measure the effects on the U.S. economy. Over the next two decades, the policy package is expected to achieve its goals by reducing GHG emissions, stimulating economic growth, and creating jobs.
- Inforum In The News - Summer 2010**  
Jeffrey Werling appeared in a recent [Washington Examiner](#) article to discuss the effects of federal aid on the Washington metropolitan housing market. Werling states that the "homebuyers' tax credit was a significant stimulus to the market." With federal stimulus funds being cut off, the area's housing market likely will have a difficult time maintaining its recent growth. On August 19th, Jeffrey Werling appeared on the [Fox 5](#) morning news program to discuss the current status of the U.S. economy under President Obama.
- The Macroeconomic Impact of Vehicle Electrification - April 2010**  
Keybridge Research and Inforum released a [report](#) detailing the long-term economic impacts of electrifying the U.S. light-duty vehicle fleet. Commissioned by the [Electrification Coalition](#), the study finds that a shift towards vehicle electrification yields a variety of benefits by 2030. America can reduce its dependency on oil and prepare itself to withstand future oil supply shocks. The number of jobs will increase, household income will rise, and the U.S. trade deficit will be smaller.
- Inforum In The News - Spring 2010**  
Jeffrey Werling, Executive Director of Inforum, was quoted in a New York Times article regarding [energy efficiency in the U.S. military](#). Werling discusses how the United States is not immune to unexpected price shocks in the world petroleum market. Military leaders argue that a shift away from fossil-based energy source could strengthen America's military and save soldiers lives.

On the left side of the page, there is a sidebar titled "EconData" with a "G7" logo. Below the logo are several menu items: Products and Services, U.S. National Models, China National Model, China Regional Model, International Partners, World Conferences (with sub-items for 2009 and 2010), Outlook Conferences (with sub-items for 2009 and 2010), and The Craft, Vol. 1-3. At the bottom of the sidebar, there are "Related Links" for the University of Maryland Dept. of Economics and the Intl Input-Output Assoc, along with a search box.

# Software & Documentation

**Software Downloads**

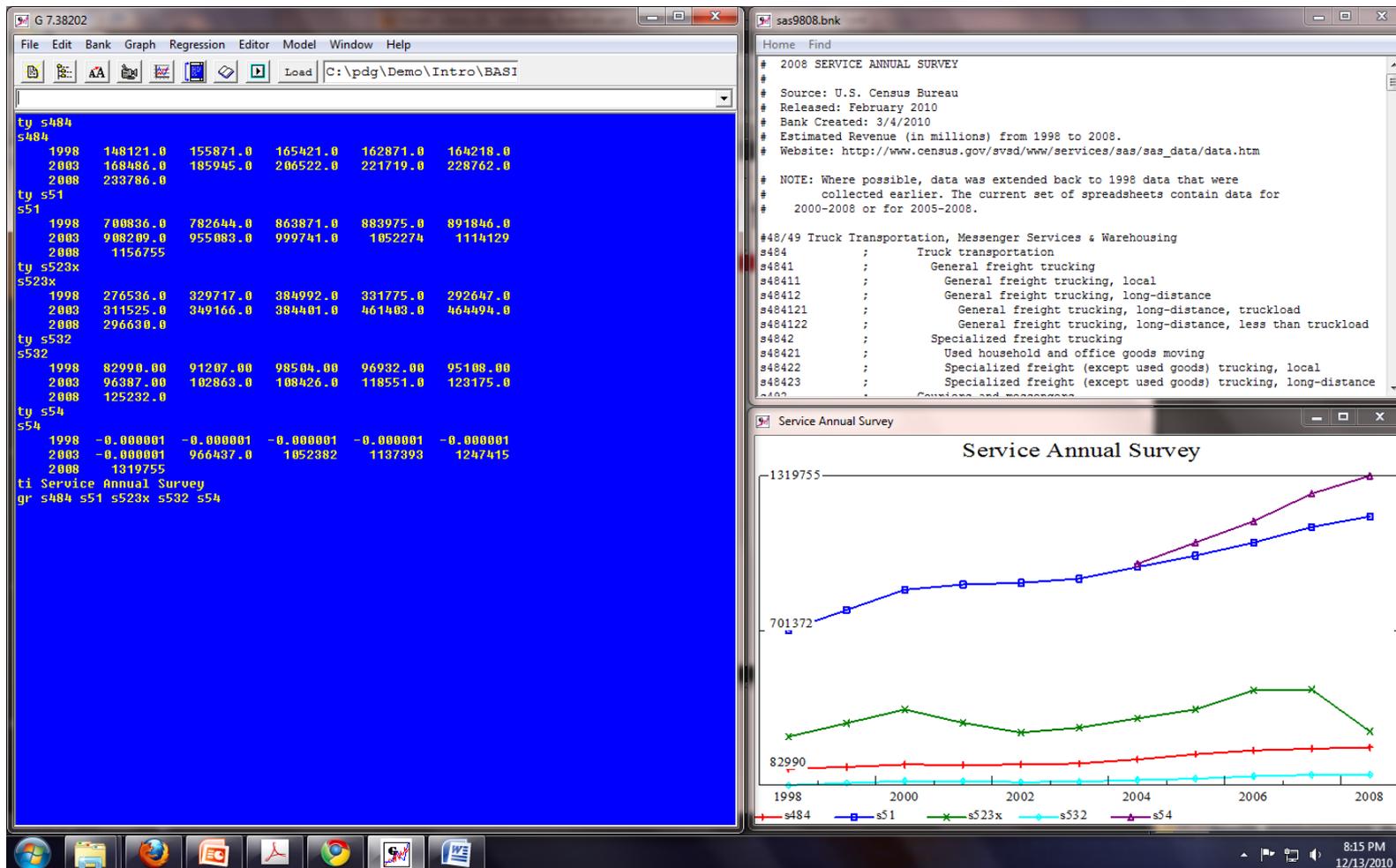
To install G7 on a machine for the first time, please follow the instructions on the [G7 page](#). The PDG installation program will provide you with a complete software package. In some cases, newer versions of specific programs may be available. These versions often are intended for testing, and are not yet available as part of the PDG installation package. In other cases, older versions of programs may be offered for download. You may download these versions by clicking the hyperlinks below; beta versions are marked "Development," and older versions are marked "Archive." Please save the program to the C:\PDG directory on your machine. If you do not have a C:\PDG directory, then please first install the full PDG software package. Please see the [Documentation page](#) for updates to the G7 Help files and other materials.

Program	Version	Release Date	New Features
PDG	7.38201	October 4, 2010	
G7 - Stable	7.38202	October 6, 2010	<a href="#">G7 Log</a>
G7 - Archive	7.3806	December 17, 2009	<a href="#">G7 Log</a>
G7 - Beta	7.38203	December 10, 2010	<a href="#">G7 Log</a>
IdBuild (for Optimization)	6.103	September 12, 2007	
IdBuild (for Optimization) - Development	6.111	October 19, 2009	<a href="#">IdBuild (Optimization) Log</a>
IdBuild	5.89	January 26, 2006	
Macfixer	1.63	November 2, 2007	
Fixer	1.80	April 14, 2006	
Compare	6.588	August 27, 2010	<a href="#">Compare Log</a>
Compare - Archive	6.588	December 17, 2009	<a href="#">Compare Log</a>
Banker	2.41	April 23, 2009	<a href="#">Banker Log</a>

# What is G7?

- A program to...
  - Build and manage data sets
  - Perform calculations and manipulate data
  - Estimate econometric equations
  - Build and run economic models
  - View data and economic forecasts with tables and graphs
  
- Developed and maintained by Inforum staff

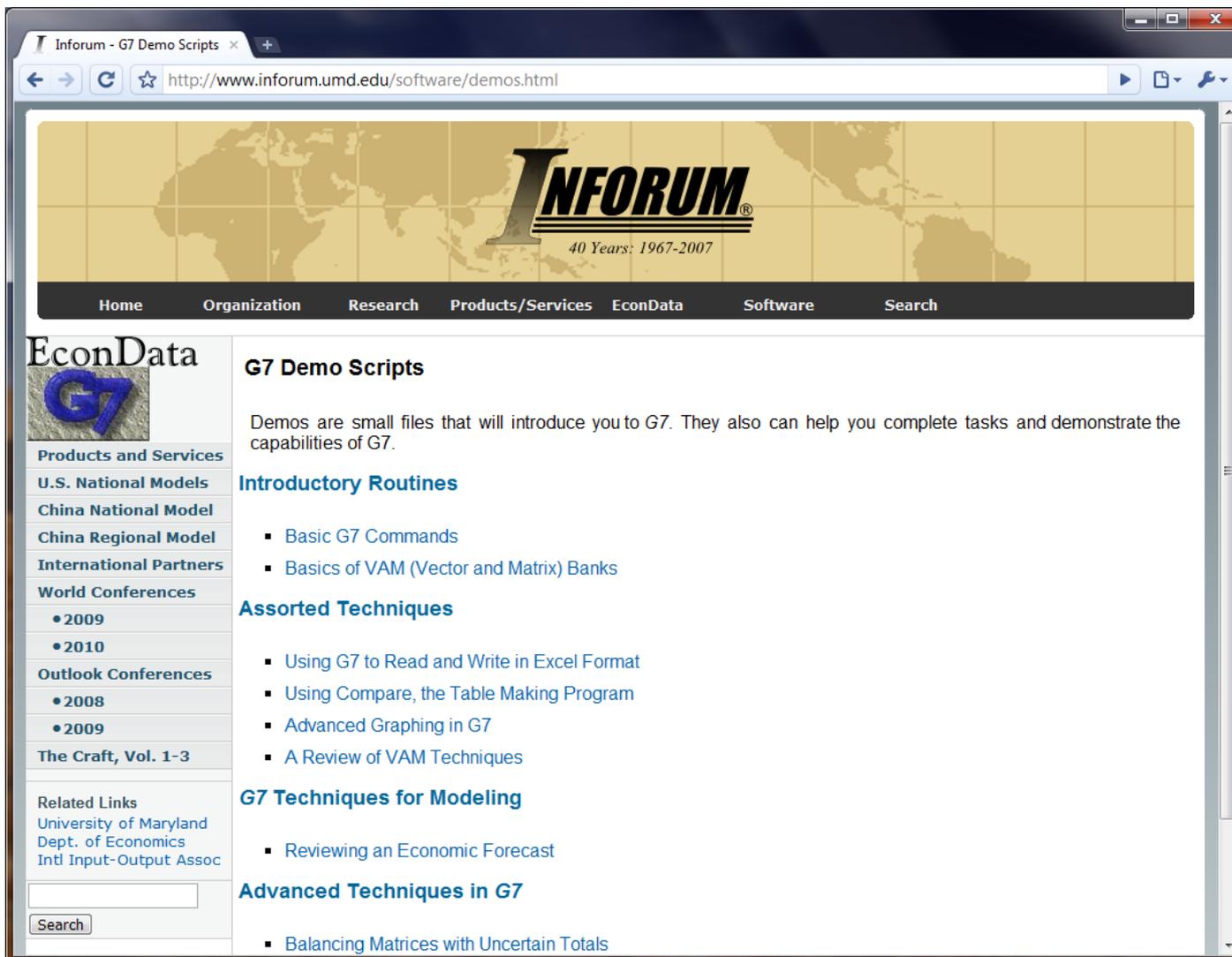
# What is G7?



# What is Compare?

- Compare is Inforum's table-generating program.
  
- Create tables from one or more bank or model simulation.
  - When comparing two or more banks, display in levels, differences, or percent differences.
  
- Export data to text files or Excel spreadsheets.

# G7 and Compare Demos



The screenshot shows a web browser window displaying the Inforum website. The browser's address bar shows the URL <http://www.inforum.umd.edu/software/demos.html>. The website header features the Inforum logo with the tagline "40 Years: 1967-2007" and a navigation menu with links for Home, Organization, Research, Products/Services, EconData, Software, and Search.

The main content area is titled "G7 Demo Scripts" and includes the following text: "Demos are small files that will introduce you to G7. They also can help you complete tasks and demonstrate the capabilities of G7." Below this text are several sections of links:

- Introductory Routines**
  - Basic G7 Commands
  - Basics of VAM (Vector and Matrix) Banks
- Assorted Techniques**
  - Using G7 to Read and Write in Excel Format
  - Using Compare, the Table Making Program
  - Advanced Graphing in G7
  - A Review of VAM Techniques
- G7 Techniques for Modeling**
  - Reviewing an Economic Forecast
- Advanced Techniques in G7**
  - Balancing Matrices with Uncertain Totals

The left sidebar contains a section for "EconData" with a G7 logo and a list of "Products and Services" including U.S. National Models, China National Model, China Regional Model, International Partners, World Conferences (2009, 2010), Outlook Conferences (2008, 2009), and The Craft, Vol. 1-3. It also includes "Related Links" to the University of Maryland Dept. of Economics and Intl Input-Output Assoc, and a search box.

# EconData

The screenshot shows a web browser window displaying the Inforum EconData website. The page features a navigation menu with links for Home, Organization, Research, Products/Services, EconData, Software, and Search. A sidebar on the left lists various categories such as Products and Services, U.S. National Models, China National Model, and World Conferences. The main content area is titled "EconData" and includes a paragraph explaining that the page lists G databanks available for download. Below this text is a table titled "ANNUAL DATA" with columns for Size, Date Last Updated, and G Databank Description. The table lists three files: NIPAA1210.ZIP (704 kb, updated 11/23/2010), ANNIO2006.zip (334 kb, updated 3/10/2008), and BLSJOBS2007.ZIP (97 kb, updated 12/2007).

**EconData**

[EconData Home](#) [EconData Archive](#) [Download G](#) [G Manual](#)

This page lists the *G* databanks that are currently made available by Inforum. Click on the filename below to download the .zip file into your local directory. Unzip it and use Inforum's database and regression package, *G*, to access that data. For assistance when using *G*, consult the [G Manual](#). The list below indicates the size (in kilobytes) of each file, date of its last update, and a brief description. The [EconData Archive](#) page contains older U.S., State and Local, and International data.

ANNUAL DATA		
Size	Date Last Updated	G Databank Description
704 kb	11/23/2010	<a href="#">NIPAA1210.ZIP</a> - National Income and Product Accounts. Release date: 11/23/2010. (NOTE: This NIPA bank reflects BEA's Comprehensive Revision of July 2009. Real data is presented in chained (2005) dollars.) Source: <a href="#">Bureau of Economic Analysis</a>
334 kb	3/10/2008	<a href="#">ANNIO2006.zip</a> - BEA Annual Input-Output Accounts. Make and Use tables. Release date: 1/29/2008. Source: <a href="#">Bureau of Economic Analysis</a>
97 kb	12/2007	<a href="#">BLSJOBS2007.ZIP</a> - Contains historical data on jobs, hours, and output. Source: <a href="#">Bureau of Labor Statistics</a>

# EconData

- Data sets are specifically packaged for use with G7.
  
- Primarily data for United States
  - National level
  - Regional level
  - State level
  
- Annual, quarterly, and monthly data.

# EconData

- BEA
  - ▣ National Income and Product Accounts (NIPA)
  - ▣ Gross Output
  - ▣ Capital, labor, energy, materials, and services (KLEMS)
  
- Energy Information Administration
  - ▣ Annual Energy Outlook (AEO)
  - ▣ Short Term Energy Outlook (STEO)

# EconData

- Census Bureau
  - Annual Survey of Manufactures (ASM)
  - Manufacturer's Shipments, Inventories, and Orders (M3)
  - Service Annual Survey (SAS)
  - Annual Wholesale Trade Report
  - Monthly Retail Trade Survey (MRTS)

# EconData

- BLS
  - ▣ National Employment, Hours, and Earnings (EHE)
  - ▣ Producer Price Index (PPI)
  - ▣ CPI (CPI)
  
- Federal Reserve Board
  - ▣ Flow of Funds (FOF)
  - ▣ Industrial Production Index (IPI)

# Models and Applications

The screenshot shows a web browser window with the URL [www.inforum.umd.edu/services/models.html](http://www.inforum.umd.edu/services/models.html). The page features a header with the Inforum logo and a navigation bar with links: Home, Organization, Research, Products/Services, EconData, Software, and Search.

**EconData**

- Products and Services
- U.S. National Models
- China National Model
- China Regional Model
- International Partners
- World Conferences
  - 2009
  - 2010
- Outlook Conferences
  - 2009
  - 2010
- The Craft, Vol. 1-3

**Related Links**

- University of Maryland
- Dept. of Economics
- Intl Input-Output Assoc

**Inforum Models**

Inforum specializes in the construction of economic models and the use of these models for forecasting and policy analysis. Inforum's fleet of models includes macroeconomic models, macro-industry models, international models, and a demographics model. Additional work includes regional models, specialized industry models, and specialized models are constructed as needed.

**Macroeconomic-Industry Models**

- [Lift](#): Includes 97 producing sectors for the U.S.
- [Iliad](#): Includes 360 producing sectors for the U.S.
- [Mudan](#): A national model of China

**Macroeconomic Models**

- [Quest](#): Quarterly U.S. model

**International Models**

- [International System and the Bilateral Trade Model](#): 13 countries, 120 commodities

**Demographics Models**

- [Demographic Projection Model](#): Long-run demographics and population forecasting tool of the U.S.

**Regional Models**

- [STEMS](#): The STEMS model provides detail for 50 states and Washington, D.C.
- [CHIOMS](#): The Chinese Input Output Modeling System (CHIOMS) is an economic model of the provinces of China.

# Research and Papers

The screenshot shows a web browser window with the URL [www.inforum.umd.edu/papers/research.html](http://www.inforum.umd.edu/papers/research.html). The page features the Inforum logo and a navigation menu with links to Home, Organization, Research, Products/Services, EconData, Software, and Search. On the left, there is a sidebar for 'EconData' with various model categories and a search box. The main content area is titled 'Inforum Research' and contains a list of research papers.

**EconData**

- Products and Services
- U.S. National Models
- China National Model
- China Regional Model
- International Partners
- World Conferences
  - 2009
  - 2010
- Outlook Conferences
  - 2009
  - 2010
- The Craft, Vol. 1-3

Related Links  
[University of Maryland](#)  
[Dept. of Economics](#)  
[Intl Input-Output Assoc](#)

Search

**Inforum Research**

The list below contains research papers, presentations, dissertations, and books written by Inforum partners. Additional papers are posted for other Inforum-supported research and materials from several Input-Output conferences.

Where appropriate, the working paper number is listed at the left in the table below. In some cases, additional materials are available for download. The search box at the bottom left of this page may be used to search for details within the papers.

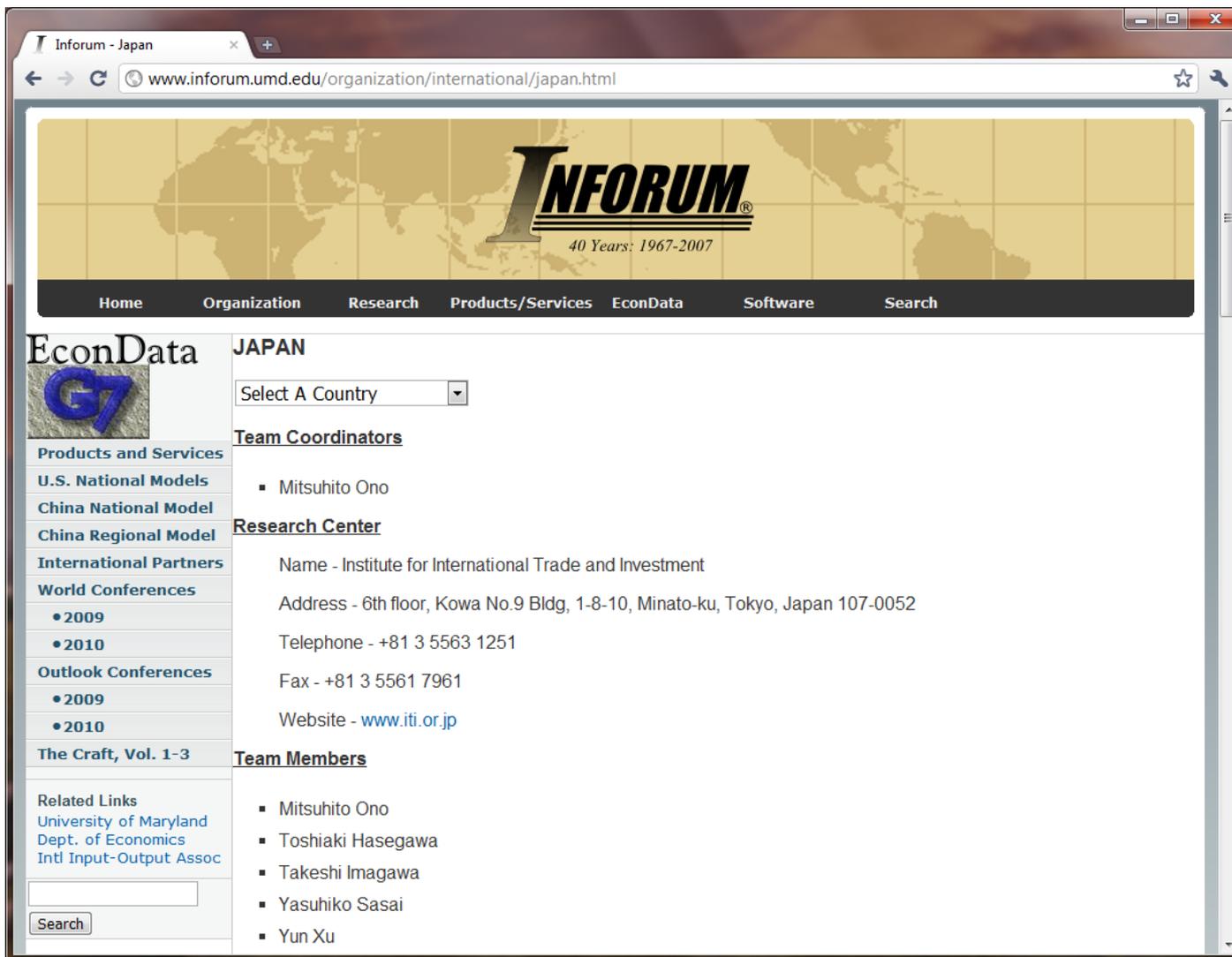
Papers are provided in PDF format. To obtain a free copy of Adobe Reader, click on the link below. If you are unable to download the paper or are unable to read the paper you downloaded, please contact the webmaster at the address listed below.

[Download Adobe Reader](#)

Select Types: All, Working Papers, Conferences  
 Sort By: [dropdown] Sort Direction: [dropdown] Submit Reset

Doc. ID	Type	Date	Title	Authors
	<a href="#">PDF</a>	2010-02-02	The Craft of Economic Modeling: Part III	Clopper Almon
	<a href="#">PDF</a>	2009-09-01	Productivity measurement in France and Italy	Rosella Bardazzi
	<a href="#">PDF</a>	2009-	What Happened to the U.S. Economy in 2008?	Clopper Almon

# International Partners



The screenshot shows a web browser window displaying the Inforum website. The browser's address bar shows the URL: [www.inforum.umd.edu/organization/international/japan.html](http://www.inforum.umd.edu/organization/international/japan.html). The website header features the Inforum logo with the tagline "40 Years: 1967-2007" and a navigation menu with links for Home, Organization, Research, Products/Services, EconData, Software, and Search.

The main content area is titled "JAPAN" and includes a "Select A Country" dropdown menu. Below this, there are sections for "Team Coordinators" (listing Mitsuhiro Ono), "Research Center" (providing contact information for the Institute for International Trade and Investment), and "Team Members" (listing Mitsuhiro Ono, Toshiaki Hasegawa, Takeshi Imagawa, Yasuhiko Sasai, and Yun Xu).

A left sidebar contains a navigation menu with links to various sections, including "EconData", "Products and Services", "U.S. National Models", "China National Model", "China Regional Model", "International Partners", "World Conferences", "Outlook Conferences", and "The Craft, Vol. 1-3". There is also a "Related Links" section with links to the University of Maryland, Dept. of Economics, and Intl Input-Output Assoc, along with a search box.

# International Conferences

www.inforum.umd.edu/organization/conferences.html

**INFORUM**  
40 Years: 1967-2007

Home Organization Research Products/Services EconData Software Search

**EconData**

Products and Services  
 U.S. National Models  
 China National Model  
 China Regional Model  
 International Partners  
 World Conferences  
 • 2009  
 • 2010  
 Outlook Conferences  
 • 2009  
 • 2010  
 The Craft, Vol. 1-3

Related Links  
 University of Maryland  
 Dept. of Economics  
 Intl Input-Output Assoc

Search

### Inforum World Conferences

Since 1993, Inforum has held an annual world conference. The aim of these conferences is to advance the work of empirical input-output modeling, analysis, and data development techniques through the presentation and publication of papers representing the work of Inforum activities worldwide. Although the agenda overlaps somewhat with that of the International Input-Output Conference, it more specifically is dedicated to empirical work, especially in the areas of model building and data development. For more information on individual countries, navigate to the [International Partners](#) page.

I.	<a href="#">Rennes</a> , France	August 30 to September 3, 1993
II.	<a href="#">Osnabrueck</a> , Germany	September 26 to September 30, 1994
III.	<a href="#">Łódź</a> , Poland	September 4 to September 8, 1995
IV.	<a href="#">Shonan Village</a> , Japan	September 16 to September 20, 1996
V.	<a href="#">Bertinoro</a> , Italy	September 15 to September 19, 1997
VI.	<a href="#">El Escorial</a> , Spain	September 17 to September 21, 1998
VII.	<a href="#">Beijing</a> , China	August 23 to August 28, 1999
VIII.	<a href="#">Bertinoro</a> , Italy	August 17 to August 19, 2000
IX.	<a href="#">Gerzensee</a> , Switzerland	September 9 to September 15, 2001
X.	<a href="#">University of Maryland</a> , USA	July 28 to August 3, 2002
XI.	<a href="#">Suzdal</a> , Russia	September 8 to September 12, 2003
XII.	<a href="#">Ascea</a> , Italy	September 5 to September 11, 2004
XIII.	<a href="#">Huangshan</a> , China	July 2 to July 9, 2005
XIV.	<a href="#">Traunkirchen</a> , Austria	September 11 to September 15, 2006
XV.	<a href="#">Trujillo</a> , Spain	September 10 to September 16, 2007
XVI.	<a href="#">North Cyprus</a>	August 31 to September 7, 2008

# Conclusion

- Please email any comments, questions, or suggestions to [twittek@umd.edu](mailto:twittek@umd.edu).
- Thank you for your attention!