How to Use the Programs

One-Facet Design: NiVaried Solution

Extract files from NiVaried.zip, then the solution (or the project) NiVaried would be opened by Visual Studio 2015. Visual Studio Community 2015 can be freely downloaded at the Microsoft website

https://www.visualstudio.com/downloads/download-visual-studio-vs

To open the solution, select the menu "FILE | Open Project" (Figure 1).



Figure 1

Select the solution file "NiVaried.sln" (Figure 2).

🖉 🗢 📕 « USB2012	2-02 (L:)	 paper2014Generalizability + BritishJl 	MSP ▶ Prg ▶ NiVaried ▶	+	♦ Search NiVar
Organize 🔻 🛛 New fol	der				
🖳 Recent Places	×.	Name	Date modified	Туре	Sîze
🐔 SkyDrive		🍌 Debug	3/8/2015 3:10 PM	File folder	
		📙 NiVaried	1/2/2015 6:20 PM	File folder	
Cibraries		NiVaried.sln	1/2/2015 6:20 PM	Microsoft Visual S	1 KB

Figure 2

If some error message is presented, it can be ignored. Some explanations about errors, which can be ignored, can be obtained at the website http://mcn-www.jwu.ac.jp/~yokamoto/openwww/cpp/VCppGraphics/#BM1

Rebuild the solution (Figure 3).



Figure 3

Select the menu "DEBUG|Start Debugging", or "Start Without Debugging" if you would like to choose the latter one.



Figure 4

MyForm window will appear (Figure 5).

🚽 MyForm	
GO	Close
Draw_SemA2	Draw_SemB2
Draw_SgmE2	Draw_Rho
General	izability

Figure 5

Irganize 🔻 New folder					988 •	
^	Name	Date modified	Туре	Size		
🗧 Libraries	Debug	3/8/2015 3:10 PM	File folder			
9.11	DataA20B5.txt	1/2/2015 8:52 PM	Text Document	2 KB		
Computer S (C:) OurFiles (D:) DVD RW Drive (E:) Sugak = Vol-hitomi (F:) Vol-ken-ichi (G:) Vol-misato (H:)						
Vol-BackUp (I:) DocsETC (J:) Vol-vmfiles (K:) USP2012.02 (J:)						
D 0302012-02 (L)						

Select the input data file "DataA20B5.txt", then click Open button (Figure 6).

Figure 6

Next, set a name of Output text file. The name is arbitrary. Click Save button (Figure 7).

rganize 💌 New told	er					8== +	6
ingenie i New York	-	A.	The Mark R	16	1.525		
	Name		Date modified	Туре	Size		
S Homegroup	퉬 Debug		3/8/2015 3:10 PM	File folder			
Commenter	DataA20B5.txt		1/2/2015 8:52 PM	Text Document	2 KB		
OurFiles (D:)							
DVD RW Drive (E:							
🕞 Vol-hitomi (F:)							
👝 Vol-ken-ichi (G:)							
👝 Vol-misato (H:)							
📖 Vol-BackUp (I:)							
👝 DocsETC (J:) 💡							
File name: temp							
Sector Contractor Contractor							

Figure 7

Then, sampling in MCMC will start. During the sampling, a window like that in Figure 8 will be presented.



Figure 8

After MCMC sampling, the window like that in Figure 9 will appear.



Figure 9

Click OK button, then MyForm window will be presented as in Figure 10.

📲 MyForm	
GO	Close
Draw_SemA2	Draw_SgmB2
Draw_SgmE2	Draw_Rho
Genera	lizability
(c	//

Figure 10

Click Generalizability button, then the graph, based on which Figure 1 of the submitted paper was prepared, will be presented (Figure 11).



Figure 11

Two-Facet Design: NiNoVaried Solution

How to use this solution (project) is essentially the same as for NiVaried solution.

Extract files from NiNoVaried.zip, then open NiNoVaried soluiton by Visual Studio 2015 (Figure 12).



Figure 12



Select the menu "BUILD | Rebuild Solution" (Figure 13).

Figure 13

Select the menu "DEBUG | Start Debugging" (Figure 14).



Figure 14

Click GO button on the presented window (Figure 15).

HyForm	
GO	Close
Draw_SemA2	Draw_SgmB2
Draw_SemO2	Draw_SgmAB
Draw_SgmÅC	Draw_SgmBC
Draw_SemE2	Draw_Rho
Generali	zability

Figure 15

Select the input data file "DataNA20NB5NC3.txt" (Figure 16).

Diput Data File		×
🔾 🖓 🖓 🖉 BritishJMSP 🔸 Prg 🔸 NiNoVaried 🔸 NiNoVaried 🔸	- 🤸 Search NiNoVaried	\$
Organize 🔻 New folder	88 • 🗖 (0
Libraries		
n Homegroup		
 Computer OS (C:) OurFiles (D:) DVD RW Drive (E:) Sugak Vol-hitomi (F:) Vol-ken-ichi (G:) Vol-misato (H:) 		
File name: DataNA20NB5NC3.bt	✓ Text file (*.bxt)	•
	Open Cancel	

Figure 16

Set an arbitrary name of the output text file (Figure 17).

Output File	Prg → NiNoVaried → NiNoVaried →	✓ ✓ ✓ ✓ Search NiNoVaried	Q
Organize 👻 New folder		BB 🕶 🔞	0
OurFiles (D:) DVD RW Drive (E: Vol-hitomi (F:) Vol-ken-ichi (G:) Vol-misato (H:) Vol-BackUp (L:) DocsETC (J:) Vol-vmfiles (K:) USB2012-02 (L:)	Debug DataNA20NB5NC3.txt		
File name: temp			•
Save as type: Text file	(*.bd)		•
Hide Folders		Save Cancel	

Figure 17

Click Save button, then MCMC sampling will starts. After sampling by MCMC, a window like that in Figure 18 will be presented.



Figure 18

Click OK button. MyForm window will be shown as in Figure 19.

MyForm	
GO	Close
Draw_SgmA2	Draw_SgmB2
Draw_SgmC2	Draw_SgmAB
Draw_SgmAC	Draw_SgmBC
Draw_SgmE2	Draw_Rho
Generali	zability

Figure 19

Click Generalizability button, then the window shown in Figure 20 will be presented. Click Ni-Varies button.

🚽 DrawGeneralizability
Ni-Varies
No-Varies
Save
Close

Figure 20



The window like that in Figure 21 will be presented.

Figure 21

Based on this graph, Figure 2 of the submitted paper was prepared.



Click No-Varies button, then the window like that in Figure 22 will be presented.

Figure 3 of the submitted paper was prepared based on this graph.