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facu f architecture 建築學院



Department of Urban Planning and Design
城市規劃及設計系

Centre of Urban Studies and Urban Planning
城市研究及城市規劃中心

HKURBAN
lab

城市空间分析论坛暨第三届中国空间句法研讨会研究生工作坊

SPATIAL DESIGN NETWORK ANALYSIS

空间设计网络分析

软件下载与安装说明

2017年11月21日

软件名称	作用	是否必须
	sDNA v3_4_6	必须
 ArcMap	ArcGIS 10.1 或以上	必须
 ArcScene	ArcScene (安装 ArcGIS 自带)	推荐
 AutoCAD 或 AutoCAD Map 3D	AutoCAD 或 Auto CAD Map3D	必须
 AutoCAD Map 3D	Auto CAD Map3D	推荐

■ 下载与安装sDNA

1. 下载最新版sDNA软件

- 官方网址

<http://www.cardiff.ac.uk/sdna/>

- “Software” → “Download”

- 选择最新版本软件并下载

sDNA_setup_win_v3_4_6.msi



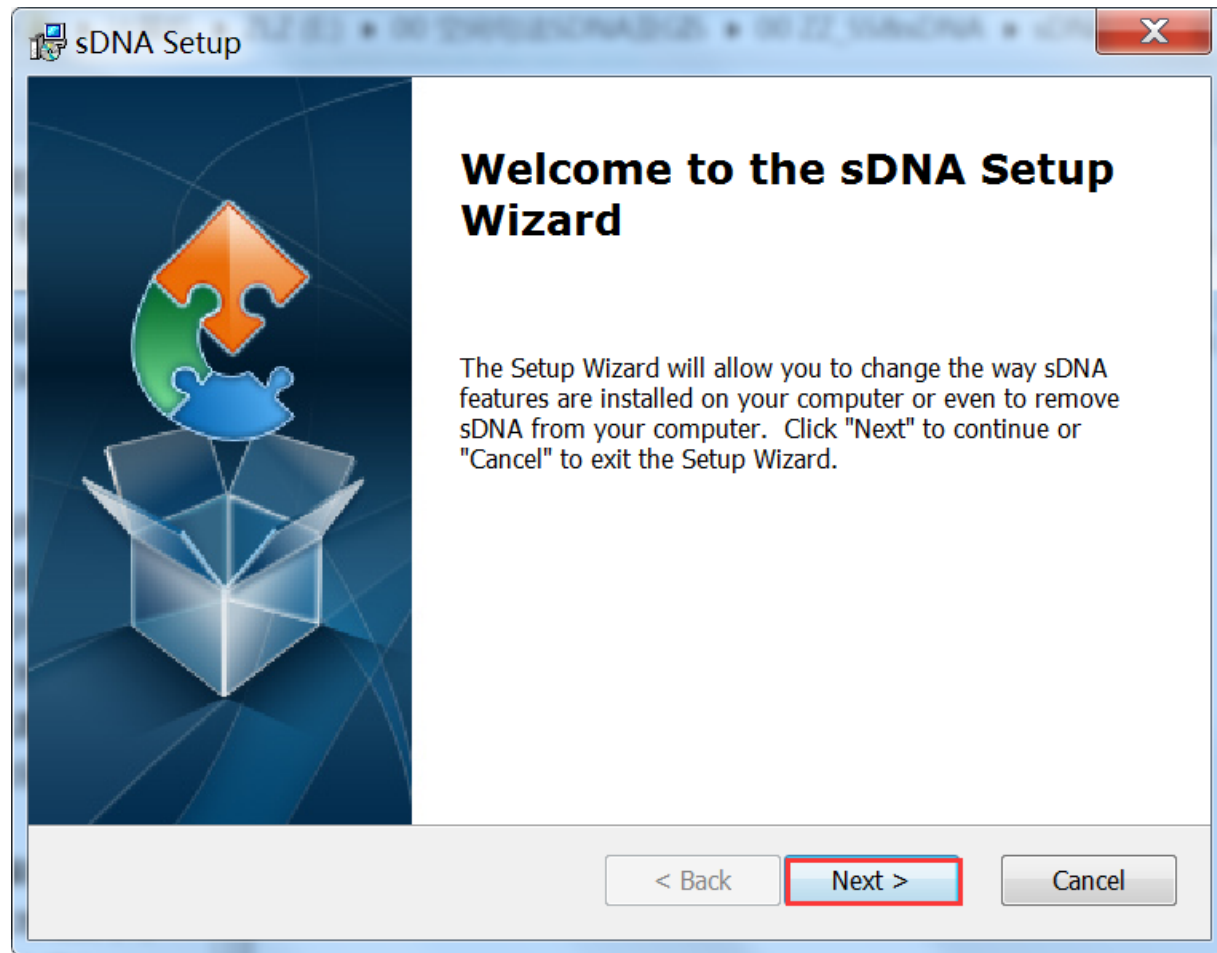
The screenshot shows the sDNA website interface. The 'Software' menu is open, and the 'Download' option is highlighted with a red box. The website header includes 'About', 'Software', 'Documentation', and 'Questions' tabs, along with a search bar. The main content area features a green banner for 'Cardiff University' and 'Geography Research Institute'. Below this, there is a description of sDNA as 'network analysis software, compatible with both GIS and industry standard network representation'. A sidebar on the right shows a 3D network analysis visualization. At the bottom, there are logos for research collaborators: The University of Hong Kong (Faculty of Architecture), Tongji University (College of Architecture and Urban Planning), E.S.R.C. (Economic & Social Research Council), ARUP, WSP, and Parsons Brinckerhoff.

sDNA Downloads

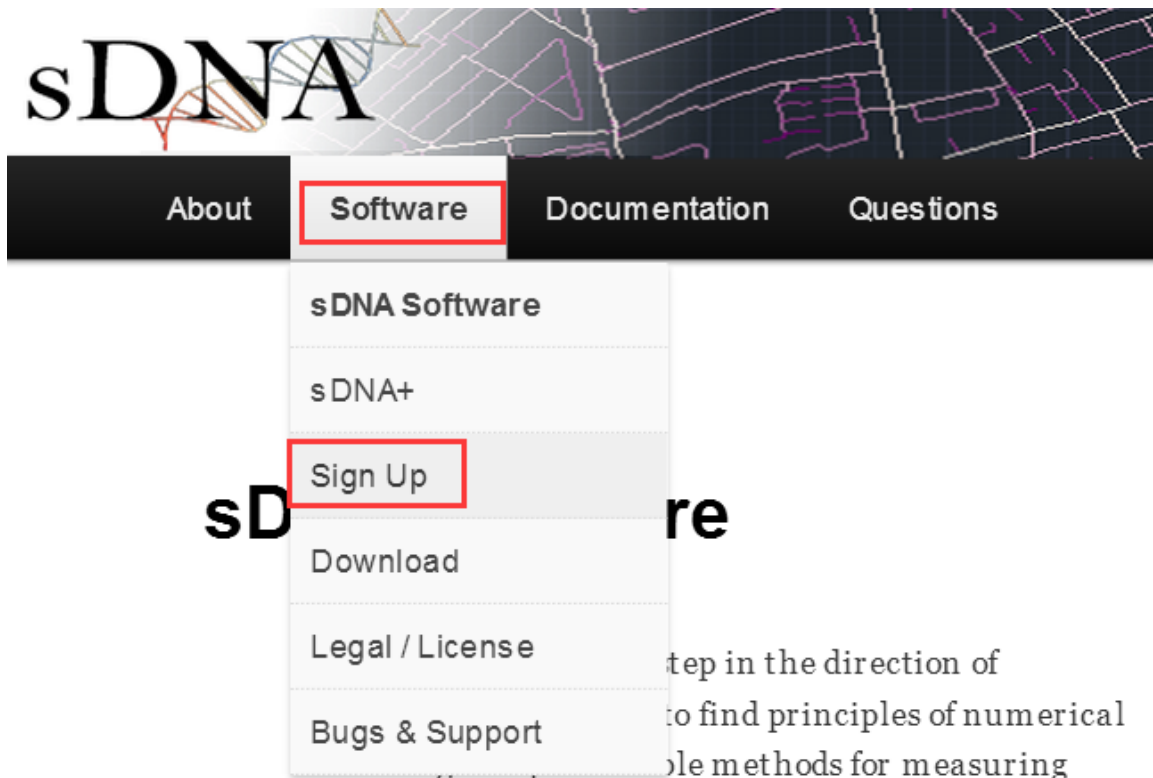
<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
sDNA_setup_win_v3_4_6.msi	20-Oct-2017 15:41	104M	Windows installer
documentation/	16-Aug-2016 16:52	-	
old versions/	16-Aug-2016 16:21	-	
sDNA_setup_win_v3_4_5.msi	16-Aug-2016 15:26	104M	Windows installer
experimental/	13-Jun-2016 15:40	-	
gplsrc/	19-Jan-2016 14:49	-	

2. 安装sDNA软件

- 双击下载的安装文件“sDNA_setup_win_v3_4_6.msi”，根据指示操作，点击“Next” → “Next” → “Next” → “I accept” → “Install” → “Finish”，结束安装。



3. 在官网注册账号免费获取序列号，注册完成后，序列号会即时发送至您的邮箱。



Sign Up

[sDNA is free for all users](#)

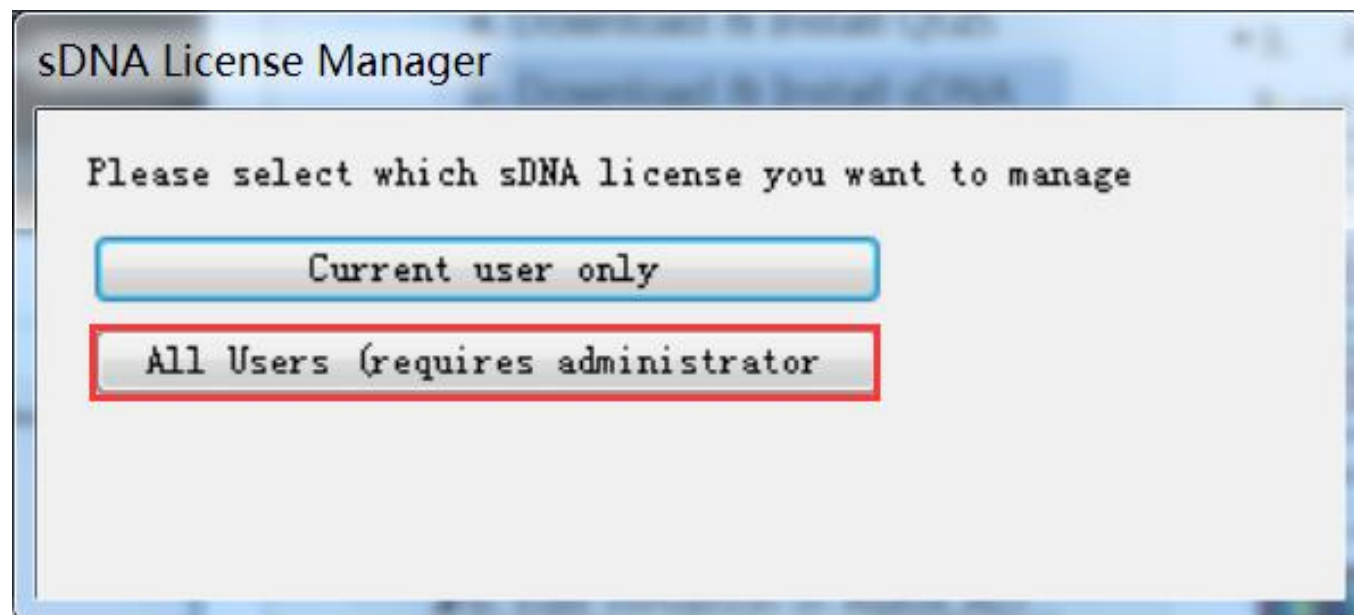
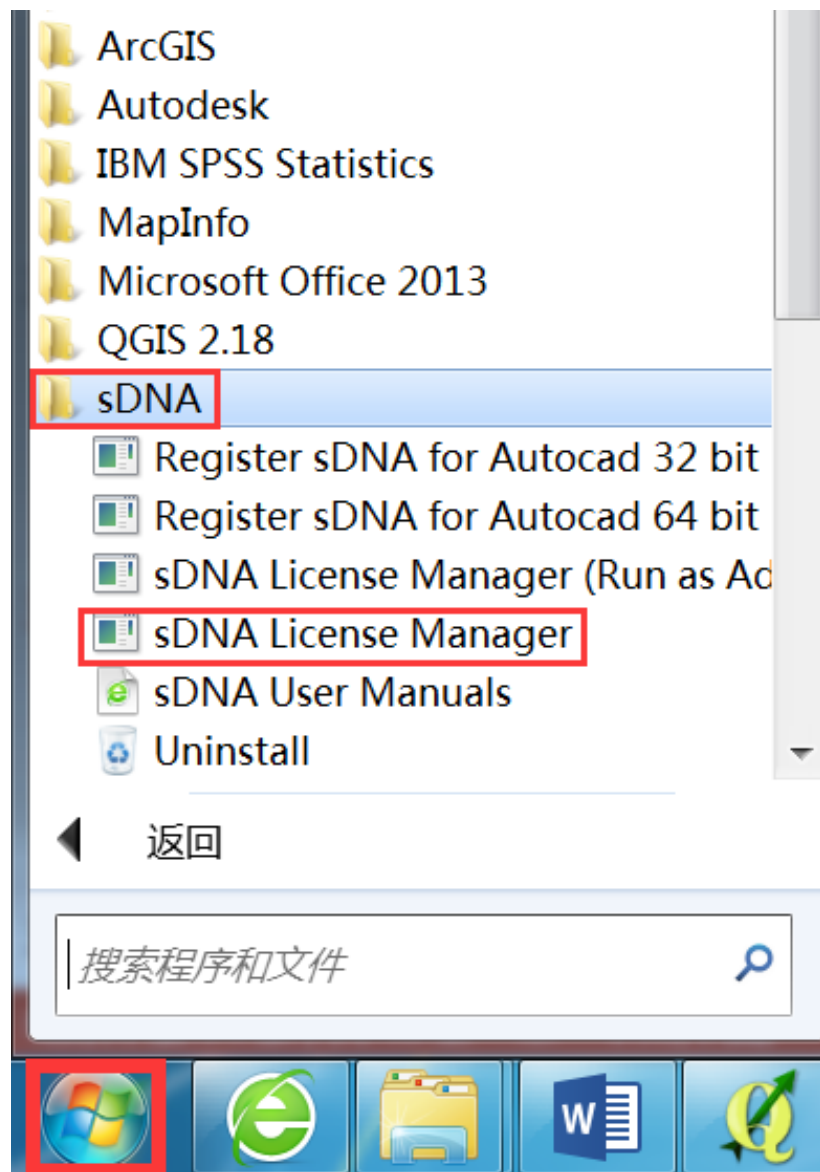
However, you need to register in order to use it; enter your details below.

Please ensure your email address is correct; your serial number will be emailed to the address entered here.

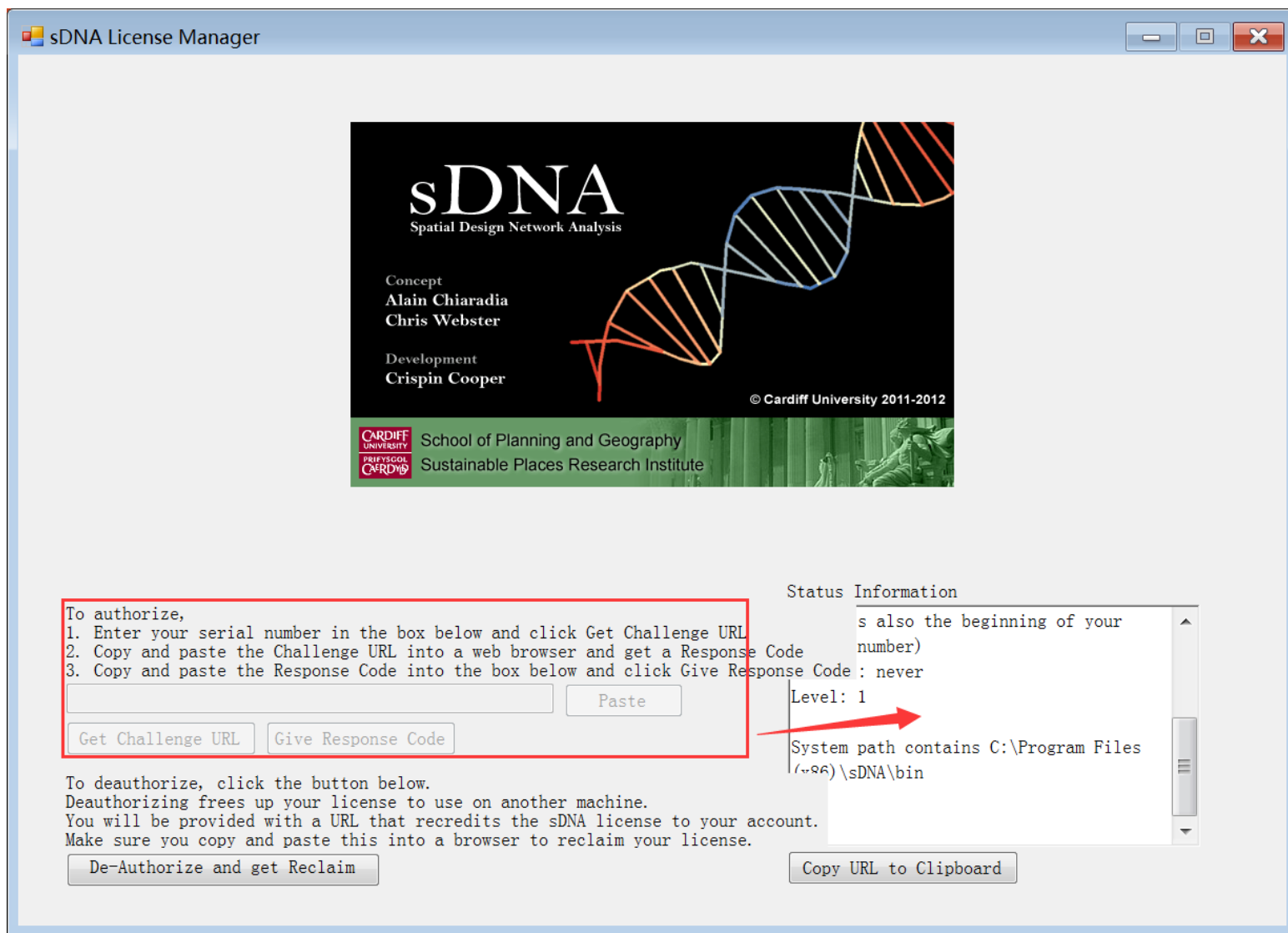
If you have registered in the past and now need another serial number, just fill out your email address – the rest of the form is not necessary for additional serials.

Full Name	<input type="text"/>
Organization	<input type="text"/>
Please select...	<input type="text" value="Commercial"/>
Email address	<input type="text"/>
Address	<input type="text"/>
Town/City	<input type="text"/>
Post/Zip code	<input type="text"/>
Country	<input type="text"/>

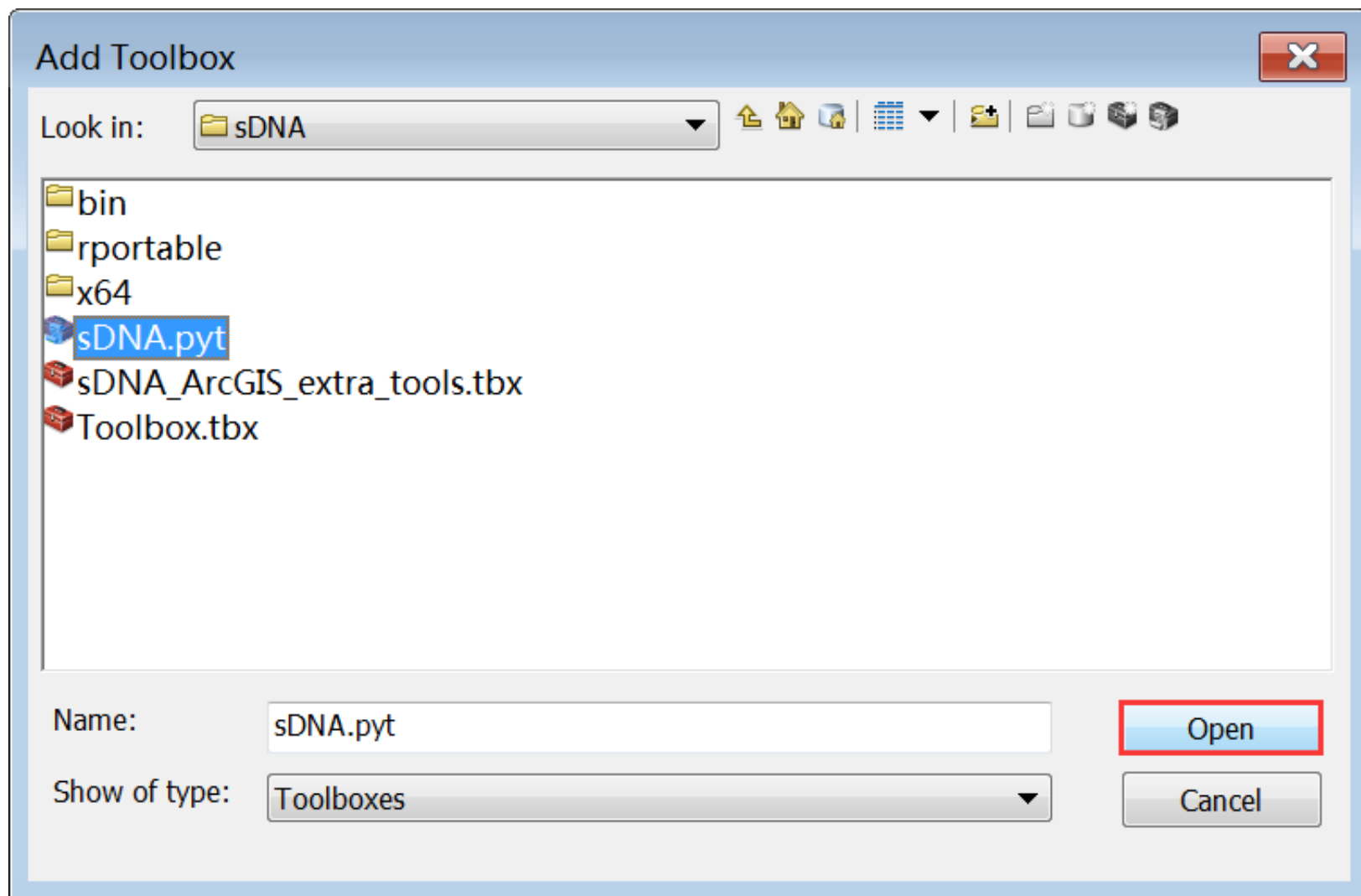
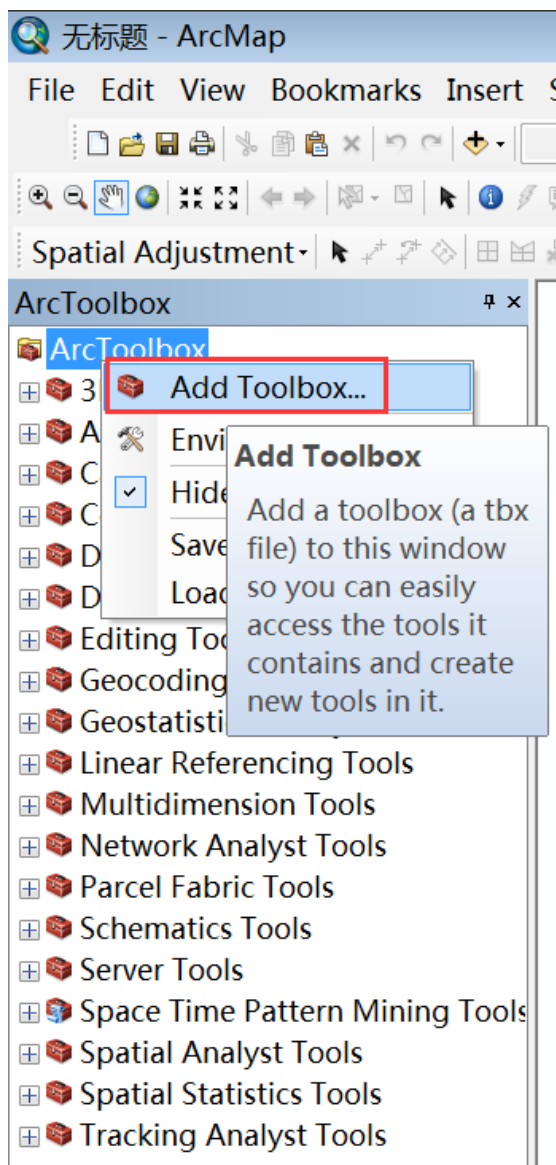
4. 在windows开始菜单运行sDNA License Manager获取许可



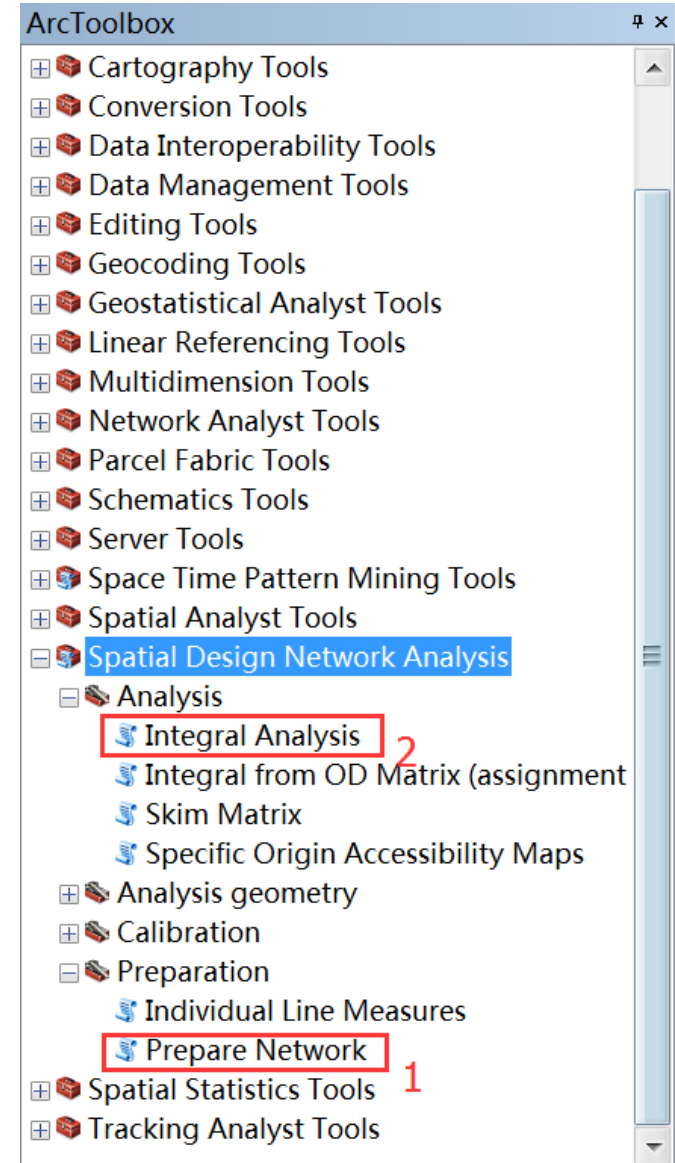
5. 使用邮箱中收到的序列号、根据许可管理窗口提示的步骤进行注册。
注册成功后，右侧窗口如下图所示。



■ 通过在ArcMAP中加载工具箱来使用sDNA



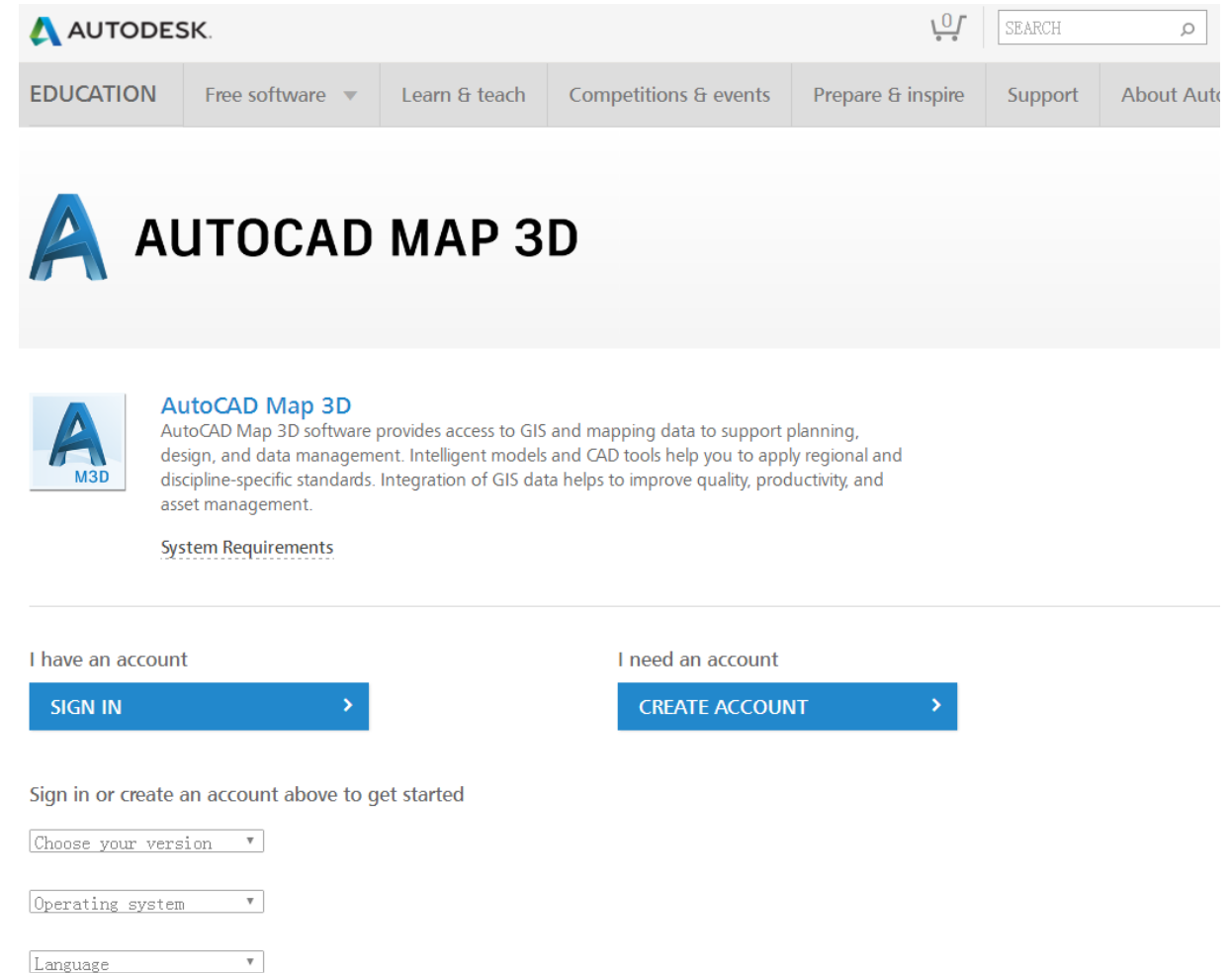
- 加载成功后，可以在工具箱中找到 Spatial Design Network Analysis, 其中主要使用的为 1.prepare Network; 2. Integral Analysis



■ 绘制3D网络还需用到AutoCAD 或AutoCAD Map3D

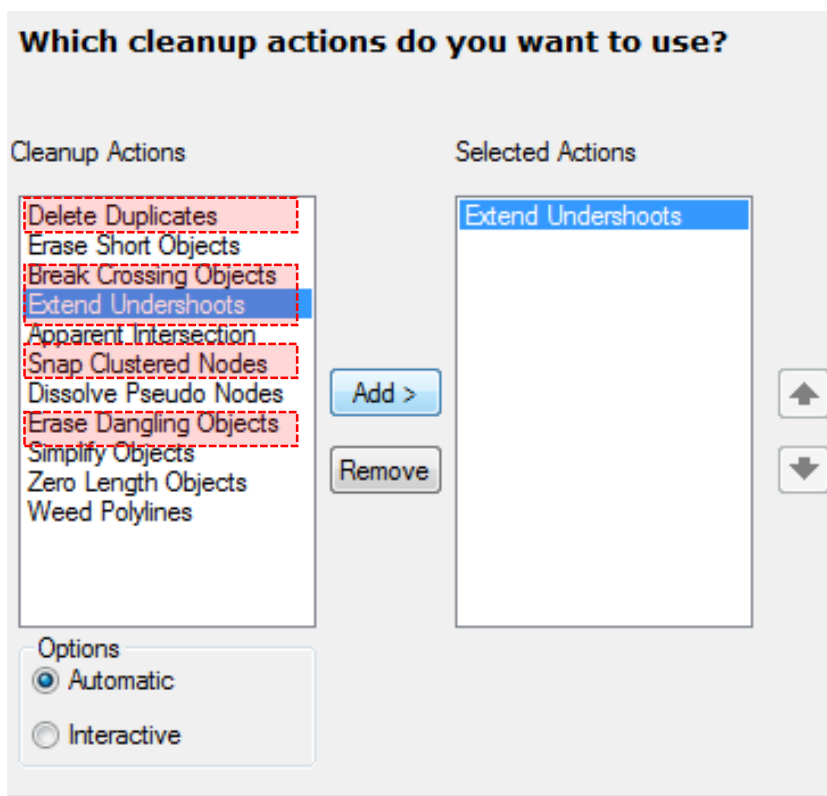
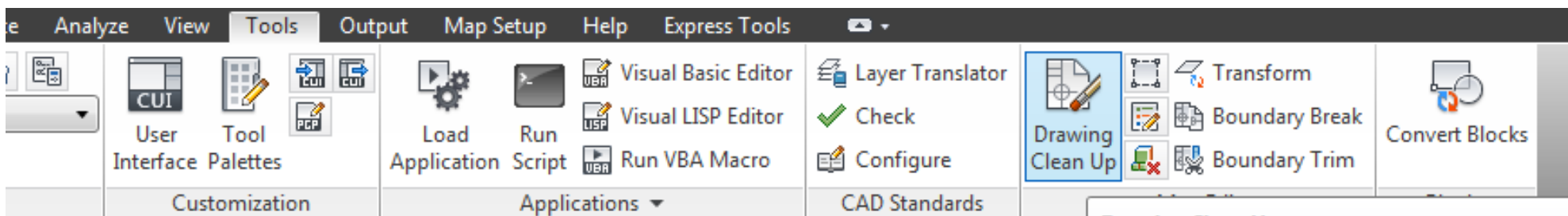
- AutoCAD与AutoCAD Map3D 均可以用于3D网络绘制，但后者的3D编辑更强大，且clean up 功能可非常方便地用于网络的前期检查与清理。
- 注册并下载AutoCAD Map3D教育版，可免费使用3年

<https://www.autodesk.com/education/free-software/autocad-map-3d>

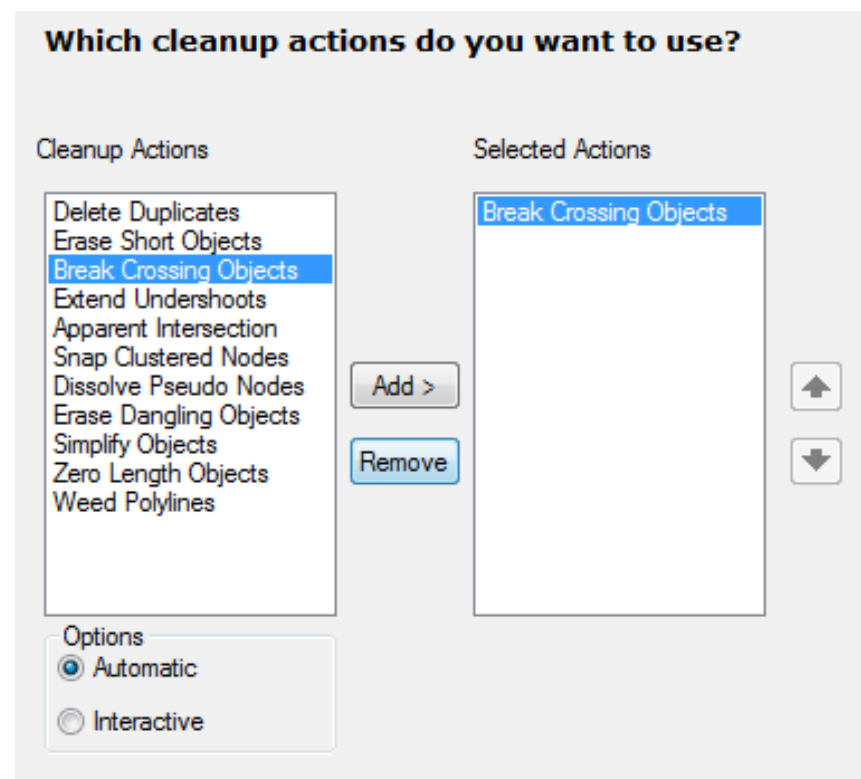


The screenshot shows the Autodesk website for AutoCAD Map 3D. At the top, there is the Autodesk logo and a search bar. Below the logo, there is a navigation menu with options: EDUCATION, Free software (with a dropdown arrow), Learn & teach, Competitions & events, Prepare & inspire, Support, and About AutoCAD. The main heading is "A AUTOCAD MAP 3D". Below this, there is a small icon of the software and a description: "AutoCAD Map 3D software provides access to GIS and mapping data to support planning, design, and data management. Intelligent models and CAD tools help you to apply regional and discipline-specific standards. Integration of GIS data helps to improve quality, productivity, and asset management." There is a link for "System Requirements". At the bottom, there are two buttons: "SIGN IN" for users with an account and "CREATE ACCOUNT" for users who need an account. Below these buttons, there is a prompt: "Sign in or create an account above to get started" followed by three dropdown menus for "Choose your version", "Operating system", and "Language".

- 使用sDNA 分析网络之前，可用AutoCAD Map3D 的图形清理(Drawing Clean up)对图进行清理



常用的几个清理命令



一个个分别使用