Computer Models
For
Fire and Smoke

Model Name:	TRad
Version:	2012
Date:	23 August 2013
Classification:	Miscellaneous
Very Short Description:	To evaluate the resultant radiative heat flux from any numbers of radiators of any orientation and shape
Modeler(s), Organization(s):	Tim Liu, H & H Fire
User's Guide:	TRad User Manual
Technical References:	TRad User Manual
Validation References:	Validated by Prof G Boustras of Centre for Risk and Safety in Environment of University of Cyprus
Availability:	Distributed by H&H Fire, http://hhfire.co.uk/trad.php
Model Actively Supported?:	We will address any bugs found and will update regularly.
Price:	GBP2000 Full License
Necessary Hardware:	Microsoft Windows
Computer Language:	Visual Basics, Microsoft Visual Studio 2012
Size:	Approx 7MB
Contact Information:	H&H Fire, 44 (0) 207 1932990

Detailed Description:

Based on first principle of the inverse-squared law, TRad allows the user to evaluate resultant radiative heat flux from building with multiple unprotected

area, taking into account of any shielding effect. There is no limit in number of radiators or receivers and they can be in any orientation. The software also evaluates radiation from fire compartment based on fire load and ventilation.