SMAR Azure Ltd
Bringing Innovation to the Marine Industry

Newsletter
March 2019

IN THIS EDITION:

AZURE PROJECT IN ACTION - ADRIA SAILS, CROATIA
SEASCAPE 18 EUROPEANS - SILVER MEDAL

Vedran Rozic (Adria Sails) usually produces cruising sails for charter fleets. Having chosen **AzureProject** as his sail design tools, he decided to start developing racing sails!

To enter this new market segment, he got in touch with **Francesco, our support engineer**. Together, they designed a set of **high performance sails** for the Seascape 18 class. After excellent results with a first set of sails in Dacron, Vedran then produced a second set using a laminate cloth.

Photo (c) 2018 Vedran Rozic

Photo (c) 2018 Ana Šutej

He says that the interaction with Francesco led him to develop winning sails. With the tools available in **AzureProject** he was able to create the desired shape and achieve excellent results - **Vedran won the silver medal at the Europeans!**

Congratulations Vedran, and good luck in your next race!

TRY THE AZURE PROJECT DEMO

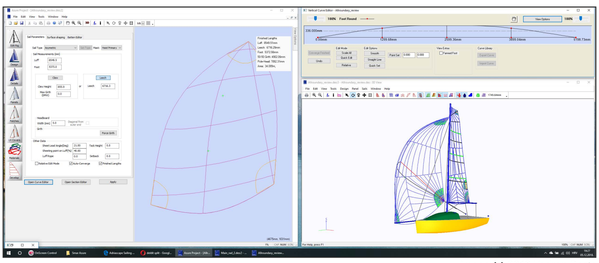
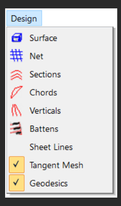


Image (c) 2018 Vedran Rozic

FRANCESCO'S CORNER: AZURE PROJECT TIPS
HOW TO IMPROVE YOUR DESIGNS USING THE TANGENT MESH AND GEODESIC LINES

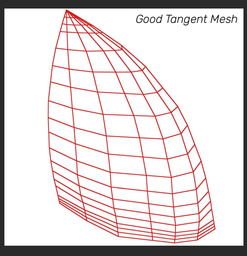
You will find the tangent mesh and geodesic lines in the the design menu in the 3D window toolbar.
These tools are key to check the sail shape and of particular use for spinnaker design and other sails with lots of shape.

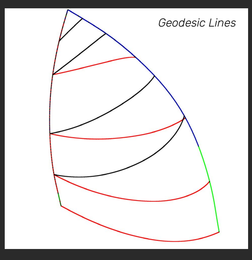


WHAT DOES THE TANGENT MESH DO?

The tangent mesh is a great tool to assist in getting a smooth sail shape: subtle errors in the sail surface design are easily found and can then be corrected.

The more regular the tangent mesh, the smoother the result will be. Handle lengths are used to refine the horizontal uniformity of the mesh, while camber, entry and exit angles are used to ensure a smooth surface.





HOW DO THE GEODESIC LINES HELP?

A geodesic line is the shortest path connecting two points on a surface. The geodesic lines shown on the sail are connecting the corner of the sails and the measurement points on the leech. When designing a symmetric or asymmetric spinnaker it is useful to check the geodesic lines along the luff and leech to ensure they run on the edge of the sail and not inside the surface, to avoid instability. Custom measurements are visible together with the other geodesic lines and allows to check the correct placement of the measurement points.

If you have any questions, or you would like to know more about any features, please contact us at support@smar-azure.com

Francesco Nasato
Support Engineer
SMAR Azure

WE'RE HERE TO HELP
SAIL DESIGN & ANALYSIS SERVICES

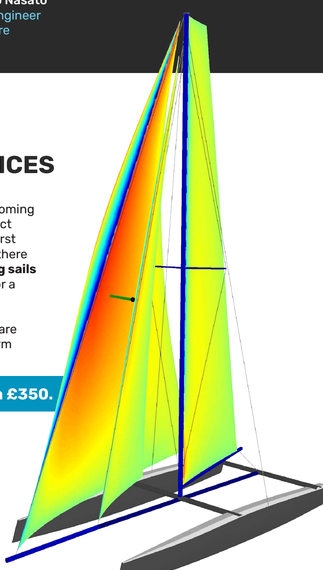
Whether you are looking for some additional capacity for the upcoming season to deliver all your orders on time, have a high profile project that is outside your normal operations or simply need to deliver first time in a one design class. Our Design and Analysis services are there to support you: designs can be anything **from standard cruising sails** to **one design race sails**, or even **super yacht sails**, we can tailor a package to suit you.

With our in depth knowledge of our design and analysis tools we are able to deliver great sail designs, optimize performance and inform material choices **quickly and effectively**.

Sail design costs **start from £60** and **analysis from £350.**

Contact us today to find out more: design@smar-azure.com

CONTACT US



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